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General Index

J. I. Smith

1990-91

Journal

GENERAL INDEX

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J. I. Smith

Journal

1990

Calif: Big Creek Reserve, Monterey Co.

Russell Tree Reservaton, Contra Costa Co.

Sagehen Creek Field Station, Nevada Co.

1998

~~Landels-Hall Big Creek Reserve, 5 mi N of Lucia, Monterey Co., California~~ ~~C. Hall~~

25 Feb 1514 hours--left Albany at 1100 hrs. Drove '80 to 980 hit
quake construction detour, got onto 880 S to San José took 175
to 15. Had heavy traffic all the way. The reserve is located
5 mi south of Esalen Inst on highway 1 (3rd Bridge past Esalen)
Beautiful sunny day, light wispy cloud cover (30%) T = ~50°F
windy is 3-5 mph out of the NW. From Albany to Big Creek is
166.4 miles. Stopped for lunch in Carmel at 1240. Ate at
Rio Grill at corner of Highway 1 and Big Rio Road. A bit pricey
(\$7 for turkey sandwich) but had nice wine list. Fueled up at Arco station
just E of Rio Grill. Big Rio Rd is one road S of Carmel Valley
Road. Have heard ♂'s singing and chirping in party lot by guest
register. 1851 hours saw 16 sparrows they were in steep
gulleys in Baccharis also in association with >6 Fox
Sparrows. The sparrows distressed called (Fox Sparrows
"chack-ing" and Song Sparrows "chirping"). Also Ruby-crowned
Kinglets "jit-jit--je-diting". Saw Numerous >10
Brown Creepers and heard many (>10) Winter Wrens +
saw 2 of the wrens they were down near the creek.
The sparrows were behaving strangely in response to playbacks.
They "chirped" but hardly any ♂'s came flying in
to give full song. It seemed like late-summer behavior.
Lots of "chirping" not much full song. Heard most
full song down in gulley by John's House. It surprises
me that there are no sparrows near the creek, they
all seem to be up on the steep sides near the
ridge tops where the vegetation is low (~46') Baccharis
and grasses. There are willows near the creek

th. 8

1990

Journal

137

25 Feb

~~Landels-Hill By Creek Perene, San Noy Lucia, Monterey Co., Calif. 02020~~

John has allowed me to stay in the trailer. It is quite nice (clean and bright, smells fresh.) Has gas stove, ^{some dishes,} oven, ^{fridge} sink with running water and lights. 2 beds and table, refrigerator table, also has a bathroom sink. Found a shower near the workshop. It is a wood platform like the one Tim built for Mary in their basement. There is an outhouse just up the grade (S) of party lot near the party area for camp vehicles. A Black+White Cat just tried to jump into the trailer thru the front door window -- scared me. The trailer inside dimensions are 12' x 7'. Should remember paper towels next time. The weather was beautiful, sunny today, pink sunset lit the Ventana peaks. The temperature was perfect for jeans and long-sleeved shirt. The night is crisp and I hear a Pygmy Owl call 5 ad up grade from the trailer. The Varied Thrush were flocking up slope with Steller's Jays. Saw orange juncos near the creek and up slope.

Species List

- Sharp-shinned Hawk - 1 200 ft elev in Monterey Peninsula Association
- Red-Tailed Hawk - 2 soaring over road (Hwy 1)
- American Kestrel - 2 Along highway on wire
- Anna's Hummingbird - 2 near creek
- Belted Kingfisher - 1 on creek
- Acorn Woodpecker H.O.
- Black Phoebe - 1 on creek
- Scrub Jay - 2 up slope 200 ft
- Steller's Jay - 4 up slope
- Ruby-crowned Kinglet - 6 all over

Pygmy Owl - species Acct.

with, J

1990

Journal

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Landels-Hill Big Creek Reserve, San Nofelucia, Monterey Co, Calif. alt elev.

25 Feb

Species List (cont.)

Hermit Thrush - 1 near creek

(outgoing) Winter Wren - 2 near creek

Varied Thrush - 6 up slope 200ft

American Robin >10 up slope

Song Sparrow - 2, HO-6 up slope

Dark-eyed Junco - 6 "Oregon" very pink sides. Mostly near creek but also up slope

Golden-crowned Sparrow - 6 up slope

Fox Sparrow - 10 up slope

26 Feb

0720 hours in heavy fog, T = 40°F, Breezy 5-10 mph. I drove 2.1 miles along road from trailer, heard & saw many sparrows.

Approximately 2 sparrows every 30-35 yds along the road. The habitat is thick Baccharis, milkweed, California sage some Ponderosa

Pine. Drive to triple fork in road. Take road N to Fane's

Also thick with sparrows -- steep habitat, thick Baccharis. Fox

Sparrows prevalent at border - Crowned Sparrows. This road

is good sparrow habitat up to point where road forks. The

NW fork goes to Fane's (caretakers) the main road stays to

the left. Sparrows are present along the road but it is

patchy -- beautiful ocean view. Sparrows are present all

the way to the end of reserve property ^{1.35} ~~1.35~~ miles past road

to Fane's. At the end of the property there is a small

ranch w/ sheep and a horse the road winds down to

Highway 1. There is a locked gate, 0.4 miles beyond the

Farm. The habitat past Fane's is grassy patches, thistles

with patches of Baccharis + willows in the gulches.

ith, J

1990

Journal

139

Landels - hill Big Creek Reserve San Lucia, Monterey Co., Calif. off elev.
 26 Feb 1300 hours fog lifting from lower elevs but still huge tangle of clouds over head. Headed down road toward ridge camp (the Spent at the triple fork). For about 1 mile down the road the habitat is Thick Baccharis, Parni Oak and good sparrows. About 1 1/2 miles the elevation increases it gets oakier there are some sparrows but not numerous. 2 1/2 miles there are oaks, Titmouse and Varied Thrush no sparrows. No more sparrows heard up to Ridge camp. Saw lots of Coyote scat and tracks. 1730 hours drive to N side of reserve. The road is impassable, I heard 3 ♂'s singing it is open Baccharis (Chaparral) and P.O.! Steep but passable.

Species List

Western Gull - 5 off coast
 Red-tailed Hawk - 3 soaring over cliffs
 California Quail - 6, H.O. many more in Chaparral ocean side
 Band-tailed Pigeon - 2 Chaparral
 Pygmy Owl - H.O. in response to my whistle
 Swift sp. off coast ocean side
 Anna's Hummingbird - 3
 Allen's Hummingbird - 1 Chaparral just below ridge top - Oaks
 Belted Kingfisher - on Creek
 Northern Flicker - 10, heard many all over
 Acorn Woodpeckers - 3, heard many especially at ridge top
 Hairy Woodpecker - ridge top camp
 Scrub Jay - 6, many in Chaparral
 Steller's Jay - 12, mobbed my pygmy owl
 Plain Titmouse - 3 ridge top
 Wren tit - 20, in Chaparral

with, J
1990

Journal

140

~~Landels-hill Big Creek Reserve, San N Lucia, Monterey Co, Calif. Oct 1989~~

26 Feb

Species (at least)

- Chestnut-backed Chucua - 1 Seaside Chippewal after Faneis
Bushtits - 6 coastal race
Brown Creeper - H.O. in Redwoods
House Wren - 1 in Thistlepatch just beyond Road to Faneis
Bewick's Wren - 6 in Baccharis
Ruby-crowned Kinglet - 3
Heard Thrush - 3 ridge top on road
Varied Thrush - 20 numerous in oaks near ridge
American Robin - 6 all over
California Thrasher - 2 in Baccharis
Hutton's Vireo-1(?) in Madrone near ridge
Rufous-crowned Towhee - 6, heard many
Brown Towhee - 6, heard many
Savannah Sparrow - 1
Song Sparrows - > 30
Dark-eyed-Juncos - numerous > 40
White-crowned ~~throated~~ Sparrow - 1
Golden-crowned Sparrow > 40 feeding on road all over
Fox Sparrow - 25
Lincoln's Sparrow - 1
Carpodacus sp. - 6 ocean side

ith, J
1990

Journal

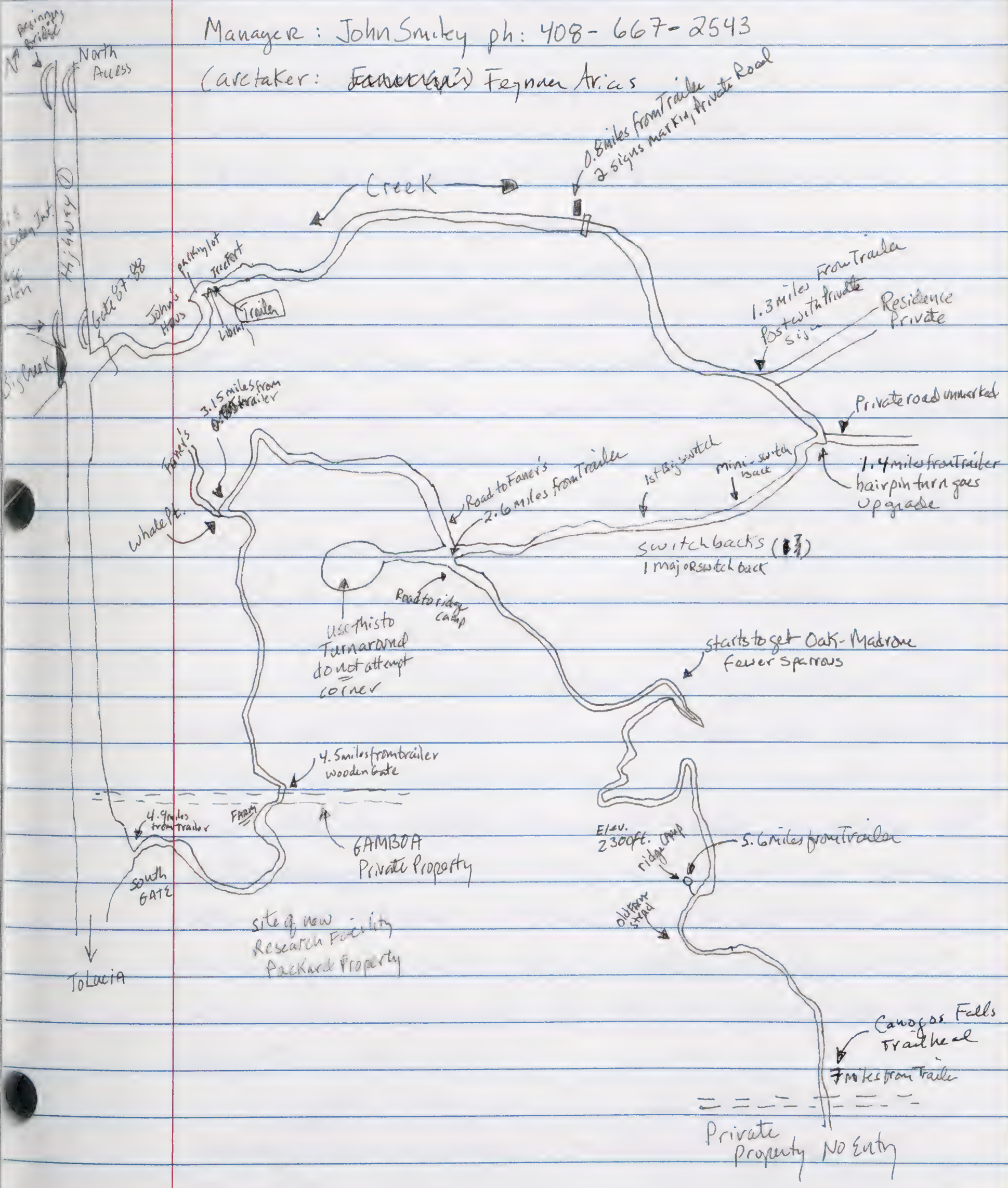
141

Landels-hill Big Creek Reserve, 5 mi N of Lucia, Monterey Co., Calif., 0 ft elev.

26 Feb

Manager: John Smiley ph: 408-667-2543

(caretaker: ~~Famer~~ Feynman Arica



th, 9

1990

Journal

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Landels-Hill By Creek Reserve, San Lucia, Monterey Co., Calif. 94028

27 Feb

0730 hours not too foggy this morning + mild 45°F, low wind (2-4 mph)

The ♂ song sparrows are singing more than yesterday but activity drops off dramatically at 10^{AM}. Set up mist-nets along the road

~ 2 miles from John's house (main gate area). Caught Hermit Thrush, 2 Golden-crowned Sparrows, 2 wren-tits + 1 winter wren: no

song sparrows. The song sparrows tend not to fly across the road and even when I wish or use playback or by song bird all they do is pop out of the vegetation they do not fly near.

at 10³⁰ hrs I gave up with road nets and decided I had to set the nets up near the sparrows. The sparrows also bait feed with the road so bait traps may not be effective. The

hillsides are treacherous - steep + slippery. Poison Oak is the dominant vegetation. It is budding out right now so not too bad, but in a few weeks - Ugh! I tried blazing a path into a sparrow hang - but it took me 1 1/2 hrs and much great work to get a net up but not very well. Lots of branches and low lying vegetation to get stuck into it. I had the lower pole 3 tiered and the upper only 2 seemed to look OK. I need a machete, some rope and stakes to help me get up and down in it. I created a lot of disturbance while I did it and when I finished no sparrows were in sight or sound. I need to get a set of coveralls, new lace for my gaiters and P.O. wax and maybe check out homeopathic remedies. The rain gear works well but boy it is like a sauna!

I drove back on 101 to 156 at Castroville to
101 N ^{to 880} it is no longer or shorter than today 1 to
17 to 880, got in traffic back-up in San Jose took 3 1/2 hrs
Trip.

ith, J
1990

Journal

143

Big Creek Reserve, 5mi N. Lucia, Monterey Co., Calif. 400 ft.

13 March

Left Albany at 10:37 am arrived Big Creek 1:40 pm.

Met John at Lab he was working on creating a computer data base of ⁵⁰⁰ plant species accounts at Big Creek. His daughter's name is Rosie. I will begin work on the Bamboo Property. Paul (Kipshorn?) is the caretaker he is involved in much grass seeding. Trying to re-seed the Elkhorn Slough with native perennials. The Bamboo property has a wanted outlook, it is a headland, ^{400ft} proposed site of new Big Creek Research facilities. There is a small spring running thru the N side of the area, there are song sparrows in that area. The sycamores live to the drainage of the spring. This is the best area for the study because it is flat and John + Fana have made paths thru the poison oak. This week I noticed the Poppies were in full bloom as well as paintbrush. Last week with Ken we saw many Chocolate Lilies down by the Willow Creek site (south of Lucia). Also Iris in bloom. Some redwoods also live to the spring.

14 Mar

Nets set at 0700 hrs caught 1st Song Sparrow at 0851 hrs in western PO from Road.

Band no. 2031-08978 RDFW ^{GP}BK 

Bill length 7.97

Tarsus 13.33

Bill depth 5.62

mid toe 13.38

Bill width 4.53

hullux 14.14

wing length 61.61

Brood patch no, still winter feathers

2nd tip to 1st tip 0.35

age

wt 19.5g

Tail length 65.42

fat some fat

(Wing length 5.10 x 6.50)

net, J
1990

144

Big Creek Reserve, Ganton Property, 5 mi N. Lucia, Monterey Co., Calif. 700 ft

14 Mar 1045 hrs caught another sparrow in the west net

Band no. 2031-08979 B^L/FW PK/LR

Bill length 8.92

depth 6.13

width 4.91

wing length 59.86

10^{th} to 1^{st} tip 10.14

Tail length 61.19

Molt - RT outer foretail feathers

and tail coverts

Tarsus 18.16

midtars 19.86

hallux 14.61

Broodpatch no

age

fat 5/4 fec

wt 20.00g

cloua 4.27 x 7.62

15 Mar 0720 hrs caught ? ♀ FY in net N of west net in meadow near draw

Band no. 2031-08980 GL/FW BK/OR

Bill length 8.95

depth 5.80

width 5.04

wing length 61.08

10^{th} to 1^{st} tip 11.64

Tail length 63.15

molt tail coverts

caught before in net

Tarsus 19.30

midtars 18.32

hallux 14.66

Broodpatch maybe lower belly

age ♀ FY yellow at annis wedge

fat 5H fec

wt 21.0g

cloua 3.8 x 6.83

18 Mar Russell Frey Res., 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft

Saw ♀ ss
with nest material
in mouth
in Milk Thistle
patch

Band no. 2031-08981 B^L/FW BK/LR Lincoln's Sparrow

Bill length 7.81

Bill depth 4.59

width 4.12 Tarsus 52.32

wing length 58.30

10^{th} to 1^{st} tip 7.03

Tarsus 15.48

midtars 19.39

hallux 13.29

Broodpatch

age ♀ belly molt, Tail not

fat

wt. 16.5g

uth, J
1990

Journal

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Big Creek Reserve, San N. Lucia, Monterey Co., Calif. 400 ft.

20 Mar

ARRIVED Big Creek last night at 2230 hrs left
Bay area at 1930 hours. ~~3~~ Got up this morning at
0530 hrs, heard 1st sparrow at 0545 hours. Had
Major Dickerson's + Blueberry muffin for breakfast.

Drove to ~~the~~ Packard property (1/2 mi S of main entrance
site of new research facility). Set up nets along S
trail and in the main center area (see map)

Saw $\frac{RD}{FW}$ $\frac{BK}{BK}$ with unmarked indiv + $\frac{BL}{FW}$ $\frac{PK}{BK}$ with unmarked
indiv. $\frac{RD}{FW}$ was in wood pile on W edge of central

area. $\frac{BL}{FW}$ is in willow on N side of central area.

Did not catch any song sparrows today! Agh! Caught
several Hermit Thrush (2 had broodpatch with eggs in
way, 1 had no broodpatch). 2 Allen's Hummers, 4
wrentits (1 with broodpatch), 1 golden-crowned sparrow, 1 Rufous-
sided Towhee. I tried using owl dummy + SS dummy
but no luck. Got best response to "Chumping" on playback.

Saw Sharp-shinned in the early morning fly in from N and
land in large Bay Tree on S side of central area. Saw
many whale ~~spots~~ spouts off the coast, they are moving
north right now. Pygmy Owl flew in to my tent area near
sunset; it perched in large Sycamore on NE side of main
area. The sparrows seem very unresponsive, only got
reaction from birds in close partnership with another indiv.
The song sparrows went about their own business. John brought
spring water down to area. He said I could drink the
H₂O out of the ~~water~~ hose.

h. g
1990

Journal

146

Bay Hack Merens, 5 mi N Lucia, Monterey Co., Calif. 400 ft.

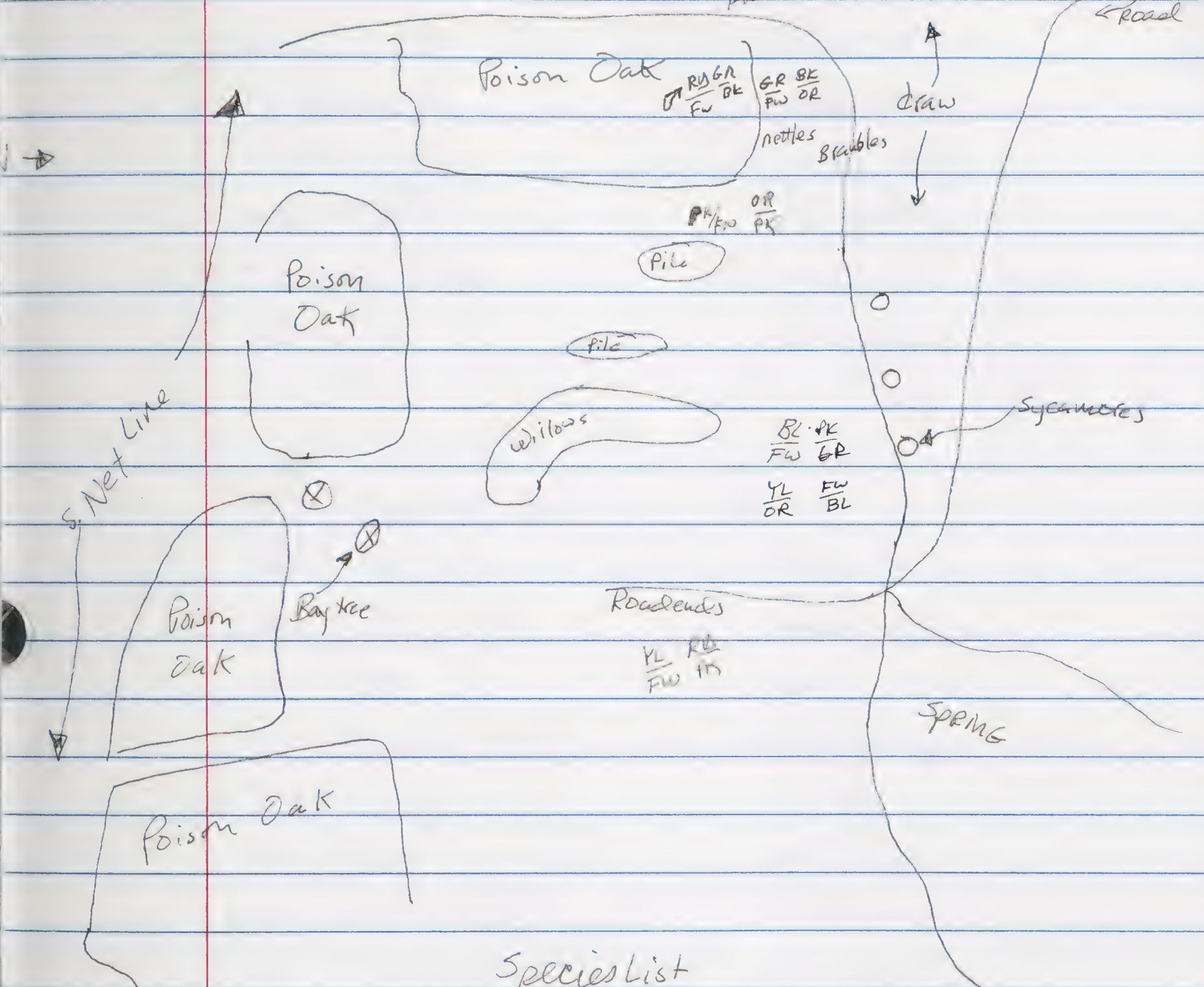
20 Mar

Pacific Ocean

wh
FW

BL
BK

sgate
← Road



Species List

- | | | |
|--|-----------------------------|--------------------------|
| 1 dozen Gulls sp flying over ocean | 2 Allen's Hummer | 10 R. Kinglet |
| 3 Turkey Vultures | Nuttall's Woodpecker (HO) | 3 Hermit Thrush |
| 1 Sharp-shinned Hawk | 4 Scrub Jays | Robin (HO) |
| 1 Red-tailed Hawk | 6 Steller's Jay | Vireo sp? |
| 5 California Quail | 6 Wren Tit | 6 Orange-crowned Warbler |
| 12 Band-tailed Pigeon | 1 Chestnut-backed Chickadee | 1 Yellow-rumped Warbler |
| 1 Northern Pygmy Owl | 20 Bushy-tits | 3 R-S Towhee |
| 2 White-throated Swifts (at Hdy) | 1 House Wren | B. Towhee (HO) |
| 1 Anna's Hummer | 6 Bewick's Wren (HO) | W-C Sparrow (HO) |
| 1 Golden-crowned Sparrow, 1 House Finch, | 6 Song Sparrow | 6 Fox Sparrow |

RD
BK
FW

Trailends

12, 9

1990

Journal

147

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif., 400 ft.

21 Mar

Band no 2031-08982 ♂ $\frac{BR}{FW}$ $\frac{RD}{BL}$

Bill length 8.57

Tarsus 19.10

depth 5.93

Midtoe 19.44

width 5.92

Wedge 14.10

wing length 62.93

Broodpatch no

10th to 1st tip 11.95

age ad

Tail 62.14

feet 514

wt 20.00g

Band no 2031-08983 ♀ $\frac{TL}{OR}$ $\frac{FW}{BL}$ ♀

BL 8.74

Tarsus 17.34

BD 5.71

Midtoe 18.43

BW 4.54

Wedge 14.15

WL 58.38

Broodpatch ~~no~~ no

1st 2nd to 1st 8.91

age ad

Tail 57.31

feet 514

molted one of the 20's

wt 19.50g

Found another pair w of $\frac{GR}{FW}$ $\frac{BR}{OR}$, saw $\frac{RD}{FW}$ in spot where banded $\frac{GR}{FW}$, he was with a ♀ but couldn't see her. In addition there is another ♂ w of the pair w of $\frac{GR}{FW}$. There is also another ♂ s of $\frac{BR}{FW}$ but trail ends so probably won't be able to get to it. Heard 6+ sparrows at 0523 hrs today. Caught 2 wren-tits (1 w/ broodpatch), 1 lf-unit Thrush with broodpatch. Scott + Jennella came today at 12pm.

2, 8
1990

Journal

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Big Creek Reserve, 5 mi N Lucca, Monterey Co., Calif. 4000 ft.

22 Mar

2031-08984

♂

YL RD
FW PK

BL 873

Tarsos 1719

BD 573

mid toe 1901

BW 491

hallux 1361

WL 6241

brood patch ♂

2° to 1° 875

age stig

TL tell off

fat slight

wt 20 g

Scott + Jonella leave today for Utah.

25 Mar

Russell Tree Res. 2 mi NW Lapaolla, Contra Costa Co., Calif. 1300 ft.

0700 hours observed a copulation between unbanded pair in the middle of the throat patch.

Band no 2031-08985

PK/FW YL/BL

BL 8.93

Tarsos 18.03

BD 5.80

mid toe 18.20

BW 4.88

hallux 13.79

WL 58.59

brood patch no

2° to 1° 8.01

age .

TL 58.02

fat sit

wt 19.00 g

claw 5.49 x 2.95

Remeasured Band no.

YL BK
FW PK

2031-08987

BL 8.82

TL 63.64

Brood patch no

BD 5.55

Tarsos 17.87

age

BW 4.99

mid toe 19.40

fat some

WL 60.77

hallux 13.21

wt 20.00 g

2° to 1° 11.24

claw 4.48 x 6.14

with, J
1990

Journal

149A

~~Russell Tree Reservation, 2m. NW Lafayette, Contra Costa Co., Calif. 1300ft~~

25 Mar Band no. 2031-08986

BK/FW GR/YL

BL 8.36

Tarsus 18.11

BD 5.91

Midtoe 19.58

BW 4.86

hallux 14.79

WL 57.05

broodpatch no

2° to 1° 7.41

age sit

TL 59.69

fat ↓

wt 19.5

Band no 2031-08987 wh/FW GR/BL

BL 8.32

Tarsus 18.95

BD 5.54

midtoe 17.91

BW 4.80

hallux 13.68

WL 56.37

broodpatch no

2° to 1° 8.95

age ~~18.00g~~

TL 58.38

fat ~~#~~ sit

wt 18.00g

Band no 2031-08988 ♂? BL/FW RD/BK

BL 9.21

Tarsus ~~19.78~~ 17.80

BD 5.87

midtoe ~~22.21~~ 20.08

BW 4.97

hallux 14.36

WL 58.28

broodpatch no

2° to 1° 12.04

age some

TL 60.24

fat ↓

wt 21.00g

10/16

10/16
10/16

10/16

1940

Journal

149B

Russell Tree Res. 2mi. NW Lafayette, Contra Costa Co., Calif. 1300 ft.

35 Mar

RD
FW

WH GR
FW BL

BE DR
FW YL

PK YL
FW BL

YL BK
FW YK

BL RD
FW BK

GR BK
FW BK

H May

Willow

Turtle 11 May

N
This H
7 May

11 May cat tails
WH YL
BK YL
FW BK
FW RD
GR BL

Pond
FW AL
PK BK
FW RD
PK BK

FW
BK

with .g
1990

Journal

150

Big Creek Reserve, Santa Lucia, Monterey Co., Calif. 400 ft elev

27 Mar

Recapture

RD/_{FW} ^{6¹²}/_{BL} ♂ 2031-08978

BL 8.35

Tarsus 19.17

BD 5.66

mid toe 18.01

BW 4.36

hallux 13.89

WL 60.95

Broodpatch no

2° to 1° 11.57

age 5/1

TL 61.83

fat ✓

wt 20.00g

clouca 7.30 x 5.72

2031-089⁹¹~~89~~

^{PK}/_{FW} ^{OR}/_{PK}

BL 7.93

Tarsus 19.77

BD 5.76

mid toe 16.95

BW 4.90

hallux 12.22

WL 60.26

Broodpatch

2° to 1° 11.95

age

TL 63.27

fat some

remarks - middle toe Rt foot

wt 20.50g

has very short claw, removed

clouca 2.92 x 3.90

tick for Lyme's Disease Study

28 Mar

2031-08992

^{wh}/_{FW} ^{BL}/_{BLK} ♂

BL 8.54

Tarsus 18.07

wt 20.00g

BD 5.72

mid toe 18.77

clouca 6.07 x 7.25

BW 4.75

hallux 14.54

WL ~~59.44~~ 60.82

Broodpatch no

2° to 1° 12.21

age

TL 64.00

fat some

12, 8

Journal

151

1990

Russell Tree Reservoir, 2 mi NW Lafayette, Contra Costa Co., Calif. 1400 ft

1 April

2031-08993 FW/PK RD/PK ♂

BL 8.17

Tarsus 19.31

BD 5.64

Midtoe 17.90

BW 4.52

hallux 14.34

WL 61.31

Broodpatch no

2° to 1° 11.62

age ad

TL 60.67

fat sec

wt 17.00g

cloaca 5.35 x 6.03

2031-08994 ♀ FW/PK BL/BK

BL 8.30

Tarsus 17.83

BD 5.40

Midtoe 16.45

BW 4.51

hallux 13.40

WL 55.22

Broodpatch 7x3

2° to 1° 10.56

age

TL 55.85

fat 51

wt 17.00g

cloaca 3.68 x 3.27

2031-08995 ♂ FW/PK BL/BK

BL 8.57

Tarsus 19.42

BD 5.86

Midtoe 17.57

BW 5.20

hallux 13.49

WL 58.70

Broodpatch no

2° to 1° 11.30

age

TL 61.82

fat some

wt 20.00g

cloaca 4.88 x 6.39

1990

Ground

152

Big Creek Reserve, Santa Lucia, Montserrat, Caribbean

3 April

2031-08997 ♂

$\frac{SS}{DE}$ $\frac{FW}{RD}$

AL 9.53

Tarsus 17.14

BD 6.05

middle 16.32

BW 4.70

huller 13.17

WL 50.27

headpatch no

2nd 9.71

eye

TL 61.02

fat some

wt 19.00g

claw 5.13 & 2.65

2031-08996

$\frac{SS}{DE}$ $\frac{FW}{RD}$

$\frac{AL}{TIC}$ $\frac{FW}{TL}$

AL 8.55

Tarsus 17.48

BD 5.91

middle 15.77

BW 4.53

huller 14.19

WL 60.90

headpatch no

2nd 11.03

eye

TL 63.62

fat some

wt 20.50g

claw 6.52 & 7.15

2031-08998

$\frac{SS}{DE}$ $\frac{FW}{RD}$

AL 8.30

Tarsus 17.15

BD 5.57

middle 17.55

BW 4.60

huller 14.17

WL 56.36

headpatch no

2nd 9.53

eye

TL 60.76

fat much

wt 17.50g

claw 5.04 & 7.77

8
1990

Journal

153

Big Rock River, East N. Lucia, Montrose Co., Colo., Montrose

3 April

2031 - 03999

$\frac{RO}{SE}$ $\frac{FL}{FK}$ ♂

BL 8.11

Tarsus 19.31

PD 5.12

width 12.59

FW 8.23

width 13.29

WL 61.75

hatched 91

2nd 10.00

1st

TL 62.93

2nd 20.00

2nd 20.50

1st 10.00

hatched 91.32

4 April

2031 - 03999

$\frac{RO}{SE}$ $\frac{FL}{FK}$

BL 8.11

Tarsus 19.15

PD 5.75

width 12.79

FW 4.21

width 12.90

WL 61.04

hatched 91

2nd 10.00

1st

TL 63.00

1st 20.00

2nd 19.00

hatched 91.32

2031 - 0900

$\frac{RO}{SE}$ $\frac{FL}{FK}$ $\frac{FW}{PS}$ ♂

BL 8.11

Tarsus 18.70 18.96 19.15

PD 5.68

width 12.60 12.85 12.90

FW 4.65

width 13.00

WL 59.70

hatched 91

2nd 9.69

1st

TL 61.21

1st 20.00

2nd 20.00

hatched 91.32

1990

Journal

157

Big Creek Road, Santa Cruz, Monterey Co., Calif., 700 ft. elev.

9 April

77-96001

GR
PK

FW
Wh

♀

BL 8.3

Tarsus 19.01

BD 5.33

mid toe 18.12

BW 4.24

humer 13.50

WL 52.50

longest toe no

2nd toe 10.45

as

TL 59.94

fat much

19.50

claw 2.41, 2.21

77-96002

GR
PK

FW
Wh

♂

BL 8.61

Tarsus 19.03

BD 5.79

mid toe 17.33

BW 4.44

humer 14.15

WL 61.49

longest toe no

2nd toe 12.25

as

TL 62.35

fat some

19.50

claw 5.76, 5.70

Russell's

No significant differences in body weight

10 April

77-96003

GR
PK

FW
Wh

♀

BL 8.00

Tarsus 19.68

BD 5.70

mid toe 17.28

BW 4.78

humer 14.31

WL 58.56

longest toe perhaps early in season?

2nd toe 11.40

as

TL 59.70

fat much

19.00

claw 2.91, 2.85

0.7

mi S from whale pt along Road to Kephart's place

N ↑

$\frac{RD}{YL}$ $\frac{FW}{BK}$ ♂

$\frac{GR}{FW}$ $\frac{GR}{RD}$ ♂

$\frac{wh}{YL}$ $\frac{FW}{BL}$ ♂
⊗ - 10 June
 $\frac{GR}{PK}$ $\frac{FU}{wh}$ ♀

| —————> 20m <————— |

1970

155

Russell Tree River, 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft elev.

14 April

77-96024

BL 8.58

DD 5.44

BW 4.24

WL 61.14

2° to 1° 12.14

TL 62.71

Tail 18.20

Wings 17.24

hallow 12.11

broodpatch no

op

fat 20.00

wt 11.5

5000-273

77-96505

^{6R}_{FW} ^{GR}_{RD}

BL 8.37

DD 5.51

BW 4.21

WL 60.70

2° to 1° 10.30

TL 62.72

Tail 18.25

Wings 16.34

broodpatch no

op

fat 20.00

wt 20.00

Loose 6.44
7.00

16 April

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 400 ft elev.

77-96021 ♂?

^{6R}_{FW}

^{GR}_{RD}

BL 8.14

DD 5.54

BW 4.43

WL 59.54

2° to 1° 10.91

TL 60.17

Tail 19.13

Wings 17.74

hallow 14.07

broodpatch no

op

fat 5H

wt 19.00

caught a Mac Gillivray's Warbler (♂) in net. + 3 allanistammers

Ureter 6.42 & 6.00

chig
1990

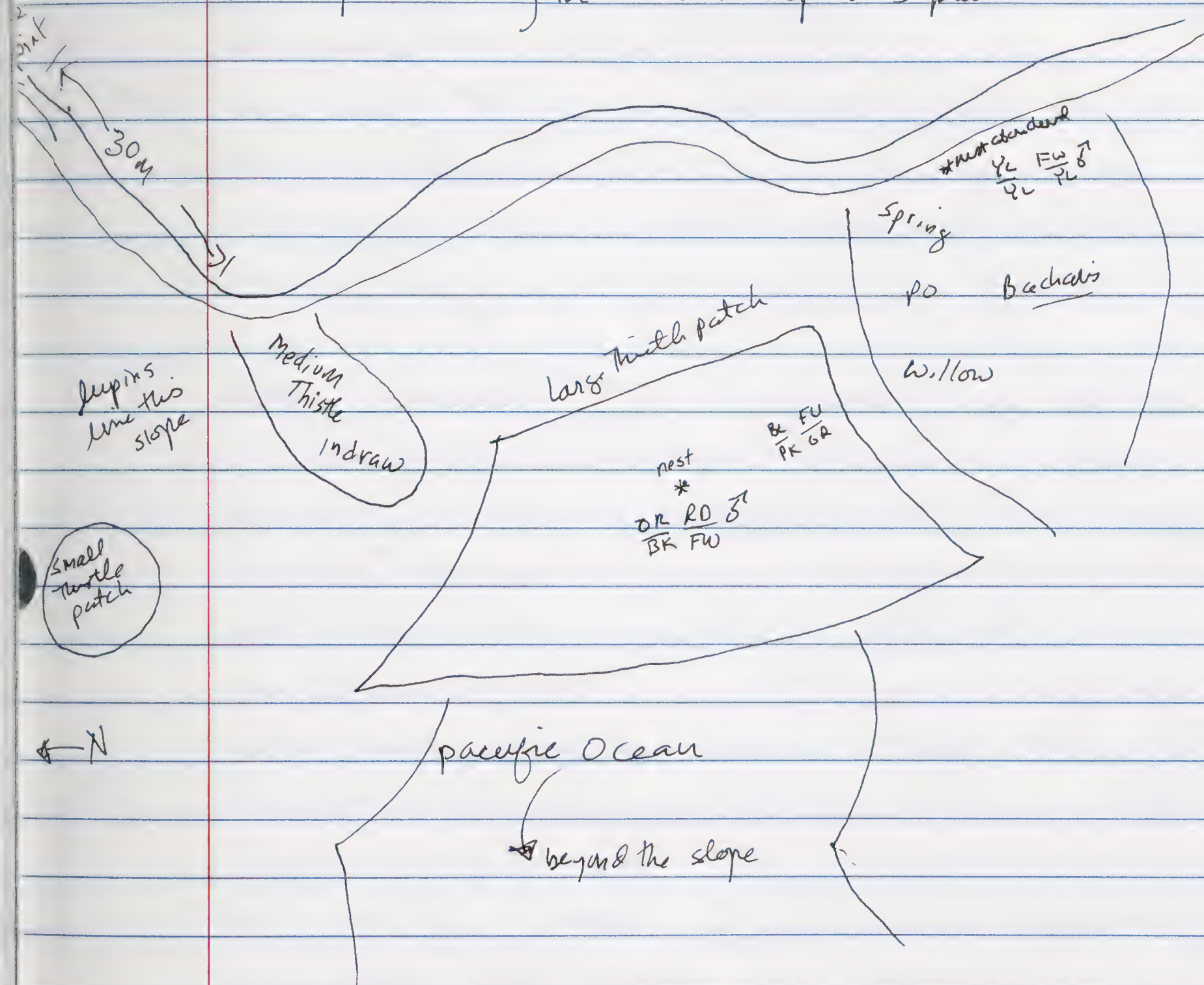
Journal

156

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif., 400 ft elev. (0.3 mi)

17 April

Mapping out territories at the thistle bowl just S of
whale point along the Road to Kephart's place.



OR PO
BK FW was with an unmarked ♀. She was "buzzing" a lot and
sitting up on the thistles. She localized her movements to the NW edge
of the thistle. I think she has a nest Right on the W edge at the
m. & point of the patch. I heard no "ticking" so she is not
incubating, but she did "chirp" as I approached. She also
didn't stay on the area for 30 minutes her activity bursts were every
15 minutes but always initiated from that same midpoint.

th, J
1990

Journal

157

Big Creek Reserve, 5 mi. W Lucia, Monterey Co., Calif. 4000 ft elev.

17 April Met Paul Todd from Santa Cruz. I agreed to talk to his Natural History / Intro Ecology class next Wednesday we meet at lab at 5pm.

18 April Was observing $\frac{OR}{BK} \frac{FW}{RD}$ + his unmarked ♀ at the thistle patch. Saw her carrying grasses ^(twice) to a spot in the middle of the patch. I flagged 2 pts one on each side, the mid pt b/t those 2 flags is where I saw her go with grass and come back up with an empty mouth.

Listening at draw with $\frac{RD}{YL} \frac{FW}{BK}$, he has moved to the upper side (above the road) of the draw. The other male which had been further down has moved up ~20 yds, still not singing where $\frac{RD}{YL} \frac{FW}{BK}$ had on Monday ^(at top near road) but closer. No sounds of ♀ is 20 minutes. Habitat looks great; thick with willows and some Poison Oak. After 1 hour I saw and heard a possible ♀ at the SW end of the upper draw. Also heard another ♂ further up who may be consorting with her. Returned after lunch to find ♀ in same general location and also an unmarked ♂ in close association while $\frac{RD}{YL} \frac{FW}{BK}$ sang like usual 20 yds to the south, hmpf! Watched $\frac{wh}{RD} \frac{FW}{PK}$ at draw with redwood stump. Female was there, thought she was feeding in nettle patch right near the road as I drove up she slowly flushed. She spent a long time on the S slope of the territory, but nothing concrete.

Back at the big thistle patch, observed an unmarked ♀ carrying grasses at top of draw with Barham's, her ♂ is also unfaded. $\frac{BL}{PK} \frac{FW}{GR} \frac{PK}{GR}$ I think is below this pair in the willows near the spring. Also another unmarked pair on the N end of the Barham's near the road they flew around a lot so probably not set in one area yet. Still no

with 1g
1990

Journal

1st nest
1st Eggs!
158

Big Creek Reserve, 5 mi N Lucia, Monterey Co. Calif 400 ft. elev.

18 April Sign of $\begin{matrix} OR & FW \\ \hline \frac{1}{2} & \frac{1}{2} \end{matrix}$ OR $\begin{matrix} BK & FW \\ \hline \frac{1}{2} & \frac{1}{2} \end{matrix}$ Found 1st nest with eggs, the pair at the latrine have 3 warm eggs - 2-3 days still quite light. The nest is ~ 1m high well covered from the top just 3m SW of latrine. The eggs are quite oblong. I did not measure them. More mosquitoes when trip despite very cool 50's and overcast. Lots of drizzle. Took the back road to whale point and found a pair near the gate posts marking the Serel's Creek private property. They were in the troubles right along the creek. It was very quiet up on the slopes where there were so many sparrows a month ago.

19 April At the packard property listening for females ~ 0600 hours, drizzle overcast, no wind quite low light. The Black-headed Grosbeaks have arrived. So too, the Bullock's Orioles. Red-wings are setting up territories in hayfield S of Paul's house.

$\begin{matrix} W & B \\ \hline FW & BK \end{matrix}$

$\begin{matrix} PK & OR \\ \hline FW & PK \end{matrix}$

$\begin{matrix} RD & GR \\ \hline FW & BK \end{matrix}$

was singing and courting with a ♀ down in needle patch where $\begin{matrix} RD & GR \\ \hline FW & BK \end{matrix}$ had been. I've seen several sparrows eating what looks like the long "fuzzy" thing from the willows. $\begin{matrix} RD & GR \\ \hline FW & BK \end{matrix}$ is now singing at west most wood/PO pile and also from the mid position Sycamores an unmarked ♀ responded to him from the ^{hemlock} needles just NW of his pile. Saw $\begin{matrix} OR & BK \\ \hline FW & BK \end{matrix}$ in same woodpile as $\begin{matrix} RD & GR \\ \hline FW & BK \end{matrix}$!

20 April Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co. Calif 1300 ft.

Found nest of $\begin{matrix} OR & FW \\ \hline \frac{1}{2} & \frac{1}{2} \end{matrix}$ no sign of male. Nest is in a

light
too low
to handle
feels upside down

dead bush in the midst of the thicket that like the S side of road nest is 8 ft from road. Four warm eggs. it is 1 1/2 ft off ground

①	②	③	④
L 19.53	L 20.16	L 19.19	L 19.95
W 15.04	W 15.11	W 15.27	W 15.07
wt 2.5g	wt 2.5	wt 2.5	wt 2.5
inc. med/light	inc med/light	inc Light?	inc Light

Th, J

1990

Journal

159

Russell Tree Res. 2 mi NW Lafayette Contra Costa Co. Calif. 1300ft elev.

20 April The nest is well-covered from above by milk thistle leaves.
On the 10th of April when I banded this pair she did not have a broodpatch.

23 April Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 400ft elev.

4 Eggs ^{WFM} 1 g unmarked pair at top of draw of Big Thistle patch

	1	2	3	4	nest is
L	19.96	19.64	19.40	19.77	1' egg guard in Ephedra?
W	15.63	15.57	15.13	15.03	well concealed above & below
wt	2.50 g	2.50	2.0 g	2.50	
inc	light	light	?	damaged gne	

Flushed ^{OR} _{BF} RD _{FW} 1's unmarked female from nest in stinging nettles.
2 cold large eggs. Nest cup is beautifully covered by a
nettle leaf. The cup is built on some taller dried nettle
branches. It is not very well concealed from NW side but
all other sides are well hidden.

	1	2
L	20.90	20.90
W	14.76	15.30
wt	2.50	

inc no no

24 April 77-96022 ^{YL} _{YL} ^{FW} _{YL} →

BL	8.35	Tarsus	17.29
BD	5.69	middle	18.45
BW	4.32	hallow	13.94
WL	60.75	broodpatch	
2nd to 1st	10.56	age	
TL	59.13	tail sit	
		wt	18.50

ovary 6.10 x 7.35

with 19

1990

Journal

160

* Big Creek Reserve, 5 mi N Lucia, Monterey Co. Calif 400 ft elev.

24 April Checked nest at top of draw near by Turtle patch. 2 abandoned cold eggs. One egg had fallen out. I think the nest cup had tipped on its side too far for the ♀ to sit on. The egg was fully out!

25 April Nest of pair Unmarked S of Green Merg
2 warm eggs

	1	2
C	20.05	19.75
W	15.19	15.04
WT	2.50	2.50
inc heavy		heavy

30 April ~~Sagehen Creek Field station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft.~~

♂ ^{RU}FW ^{OR}BL is singing from same willow patch as last year!
caught an unbanded ♂ just W of him they appear to be duetting it out for this spot.

77-96023 ~~FW~~ 4L/BK ^{FW}WH ♂

BL 8.99	Tarsus 19.08
BD 5.85	middle 17.84
BW 4.79	halcyon 14.47
WL 64.82	broodpatch na
FW 20/10 11.20	fat 5H
TL 65.08	claw 4.31 x 4.36
	wt 21.00g



Ph, J
1998

Journal

161

~~Sagehen Creek Field Station, 3 mi NW Hot Springs, Nevada Co., Calif., 6300 ft.~~

30 April

77-96024 ♂

$\frac{WH}{RD}$ $\frac{FW}{YL}$

BL 9.13

Tarsus 20.21

BD 6.43

mid toe 17.94

BW 5.10

hallery 14.51

WL 65.33

brood patch no

2° to 1° 10.18

eye

TL 70.66

feet some

claws 4.42 x 3.17

wt 22.0 g

77-96025 ♀

$\frac{BL}{BL}$ $\frac{FW}{DL}$

BL 8.77

Tarsus 19.43

BW 5.32

mid toe 17.57

BW 4.78

hallery 13.54

WL 60.70

brood patch no

2° to 1° 10.22

eye

TL 65.61

feet much

wt 19.58 g

claws 3.09 x 3.09

77-96026 ♂

$\frac{RD}{OR}$ $\frac{FW}{PK}$

BL 9.12

Tarsus 19.45

BD 5.92

mid toe 18.46

BW 5.20

hallery 14.32

WL (11.74) 65.15

brood patch no

2° to 1°

eye

TL 67.89

feet some

lost one tail feather in net

wt 25.0 g

claws 5.42 x 6.62

th, g
1990

Journal

162

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co., Calif 93008

30 April

77-96027 ♂ $\frac{WH}{BK}$ $\frac{FW}{OR}$

BL 9.48 Tarsus 19.82
BD 5.92 mid toe 19.00
BW 4.92 hallux ~~13.77~~ 14.39
WL 64.07 brood patch no
2° to 1° 12.39 eye ~~small~~
TL 67.60 wt 25.00g
molting tail coverts fat much cloaca 6.18 x 5.20

77-96028 ♂ $\frac{RD}{GR}$ $\frac{FW}{GR}$

BL 8.89 Tarsus 18.49
BD 5.79 mid toe 17.76
BW 5.22 hallux 13.73
WL 65.82 brood patch no
2° to 1° 14.08 eye
TL 68.98 fat much
wt 25.00g cloaca 6.81 x 5.06

77-96029 ♂ $\frac{FW}{OR}$ $\frac{FW}{BK}$

BL 9.72 Tarsus 19.56
BD 6.35 mid toe 18.22
BW 5.47 hallux 14.90
WL 67.18 brood patch no
2° to 1° 12.62 eye
TL 69.00 wt 25.00
fat much cloaca 6.13 x 4.45

M, J

1990

found

163

~~1 May~~ ~~3 April~~ ~~Sagehen Creek Field Station 3 mi NW Hobart Mills, Nevada Co, Calif 96054~~

77-96030

♂

$\frac{RD}{FW}$ $\frac{BL}{GR}$

BL 8.62

Tarsus 19.21

BD 6.39

Midtoe 18.23

BW 5.88

hallux 14.79

WL 64.10

broodpatch

2° to 1° 10.72

eye

TL 66.51

fat some

wt 21.00 g cloaca 5.52 x 5.16

77-96031 ♂

$\frac{BL}{FW}$

PK
~~BL~~ $\frac{AU}{FW}$

BL 9.29

Tarsus 20.94

BD 5.94

Midtoe 17.73

BW 4.96

hallux 14.26

WL 66.72

broodpatch no

2° to 1° 12.88

eye

TL 72.74

fat much

wt 21.00 g cloaca 4.69 x 4.43

77-96032 ♂

$\frac{GR}{FW}$

~~BL~~ $\frac{GR}{WH}$

BL 9.59

Tarsus 20.17

BD 6.28

Midtoe 19.15

BW 5.04

hallux 14.89

WL 67.54

broodpatch

2° to 1° 11.72

eye

TL 73.53

fat much

wt 23.00 cloaca 6.98 x 5.27

with, g

1990

Journal

gouldii 1st nestlings

164

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co. Calif 6500 ft

1 May

77-96033

♂

OR FW YL BK RD

BL 8.87

Tarsus 20.62

BD 6.06

Mid toe 18.57

BW 4.92

hally 15.50

WL 68.38

brood patch

2° to 1° 12.64

eye

TL 70.84

fat much

wt 25.00 g

claw 4.91 x 7.35

77-96034 ^{BK} ^{FW} ^{BK} ^{GR}

♂

BL 9.20

Tarsus 19.37 19.75

BD ~~6.22~~ 5.96

mid toe 18.21

BW 4.90

hally 15.43

WL 65.57

brood patch no

2° to 1° 11.53

eye

TL 73.55

fat much

wt 21.80 g

claw 5.28 x 6.07

6 May

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif 6300 ft

Nestlings of ^{OR} ^{FW} ^{BK} ^{GR} no feathers emerged I will color band only

	RT leg BK	LT leg BK	left leg OR	RT leg OR
BL	2.26	3.80	3.48	4.15
BD	2.82	3.14	3.15	3.05
BW	3.22	3.28	3.45	3.01
WL	15.99 no emer.	17.68 no emer.	21.78 no emer.	19.85 no emer.
TL	0	0	1.51	0.0
Tarsus	12.32	12.90	14.49	15.27
Mid toe	15.08	17.23	18.61	17.71
Hally	9.46	9.92	10.85	10.43
Wt	8g	11g	12g	12g
Fat	some	some	some	much
Age	4 days?	Y	Y	Y
	eyes closed	eyes open	eyes open	eyes open

Smith, J.
1990

Journal

165

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif. 1300ft

7 May

North of BL/FW RD/BK + Unmarked ♀

~ 8 days old

77-96035 up BL Right

BL 4.87

Tarsus 18.19

BD 3.57

Mid toe 18.81

BW 3.67

Wing 12.92

WL $\frac{3.79}{31.44}$

wt 15.0g

TL $\frac{1.55}{7.8}$

fat mod

Molt wing

tail

heel $\frac{6.08}{10.47}$

back $\frac{9.83}{16.51}$

one undeveloped egg L 20.07 w 15.22

inc light

8 May

Big Creek Reserve, 5 mi N Lucia, Monterey Co., California, 400ft

Found nest of FL/OR FW/BL ♀ on locked property. It is in

a stand of nettles ~2 1/2' off the ground very substantial nest
cup with sturdy twigs and milk thistle leaves (dried). The
cup is covered by nettle leaves. I will not mark the eggs

1

2

3

4

L 18.98

20.00

19.66

19.16

W 14.81

14.67

15.37

15.21

wt 2.0g

2.0g

2.0g

2.0g

inc

overcast, too dark

There are warm eggs. I flushed the female

Smith, J

1990

Journal

166

Big Creek Reserve 5 mi N Lucia, Monterey Co., Calif. 400ft elev

9 May

wh 1/4 L FW 1/3 BL ♂

nest with 4 warm eggs. 2' off the ground in wild pea and Eriogonum.

L	20.03	19.18	18.93	19.04
W	15.91	15.73	15.55	15.77
wt	2.5 g	2.0 g	2.0 g	2.0 g
inc	Tazoverant			

3 nestlings of pair in draw just S of whale point
nest is in Eriogonum and nettles. Hatch Day

	left foot	right foot	both feet
BL	2.06	2.19	2.36
BD	2.27	2.28	2.54
BW	2.41	2.36	2.27
WL	6.09	6.07	5.71
TL	0	0	0
Tarsus	5.64	5.62	5.46
mid toe	6.91	6.45	6.70
hobby	4.83	4.25	4.38
gc	1	1	1
fat	some	some	some
wt	2.25	2.25	2.08

saw ♀ carrying food but not the ♂; he probably doesn't know they've hatched. Caught female coming off nest's

77-96036

DL FW BK 1/6R

BL 8.17 20 to 10 16.93 hallway 14.02

BD 5.35 TL 58.47

brook patch yes

clouds 2.42x 0.82

BW 4.53 Tarsus 18.91

fat much

WL 55.79 mid toe 17.36

wt 19.0 g

Smith, J

1990

Journal

167

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif. ¹³⁰⁰ ~~1300~~ ft elev.

11 May Nest check at $\left[\begin{smallmatrix} OR \\ BL \end{smallmatrix} / \begin{smallmatrix} FW \\ BK \end{smallmatrix} \right]$ ♀ empty nest saw one adult. No sign of fledglings no distress call by parents; it looks bad! The ♂ of this pair is $\left[\begin{smallmatrix} PK \\ BL \end{smallmatrix} / \begin{smallmatrix} FW \\ BK \end{smallmatrix} \right]$. I couldn't tell which adult I saw but it certainly was FW/BK .

13 May Found nest of $\left[\begin{smallmatrix} GR \\ FW \end{smallmatrix} / \begin{smallmatrix} OR \\ BK \end{smallmatrix} \right]$ in milk thistle patch 4 warm eggs. I believe $\left[\begin{smallmatrix} BK \\ FW \end{smallmatrix} / \begin{smallmatrix} WY \\ YL \end{smallmatrix} \right]$ + $\left[\begin{smallmatrix} FW \\ GR \end{smallmatrix} / \begin{smallmatrix} OR \\ BL \end{smallmatrix} \right]$ are feeding a fledgling.

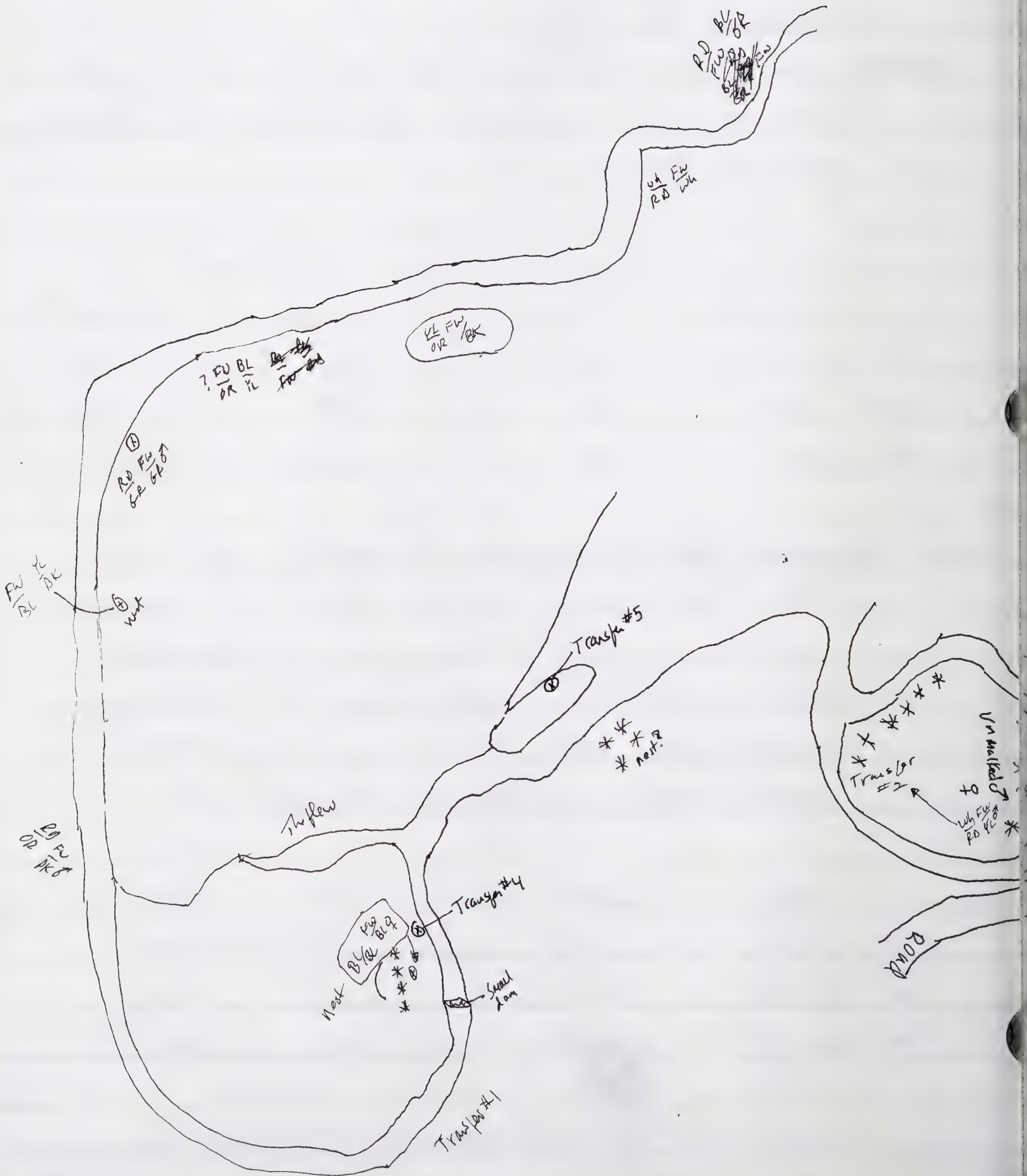
	1	2	3	4
L	20.57	20.43	20.52	20.40
W	15.25	15.47	15.40	15.08
Wt	2.50	2.5	2.0	2.08
inc	heavy	hvy	hvy	hvy

16 May Sagehen Creek Field Sta. 3 mi NW Hart Mills, Nevada Co., Calif. ⁶³⁰⁰ ~~6300~~ ft
 OR/FW OR/BL ♂ flicking in willow grove where ♀ nested last year. There is another ♂ singing just W of Green shed.
 Found nest of $\left[\begin{smallmatrix} BK \\ FW \end{smallmatrix} \right]$ and unmarked ♀, 4 warm eggs, flushed female. nest is NW 1m from metal tepee constructed w/ willow marking last year's nest

	1	2	3	4
L	19.43	20.99	19.27	20.36
W	15.56	15.83	15.75	15.65
Wt	2.25	2.50	2.25	2.25
inc	hvy	hvy	hvy	hvy

nest is ~10" off ground concealed by tall dead grass in a low willow

① Transfer #6



W, J

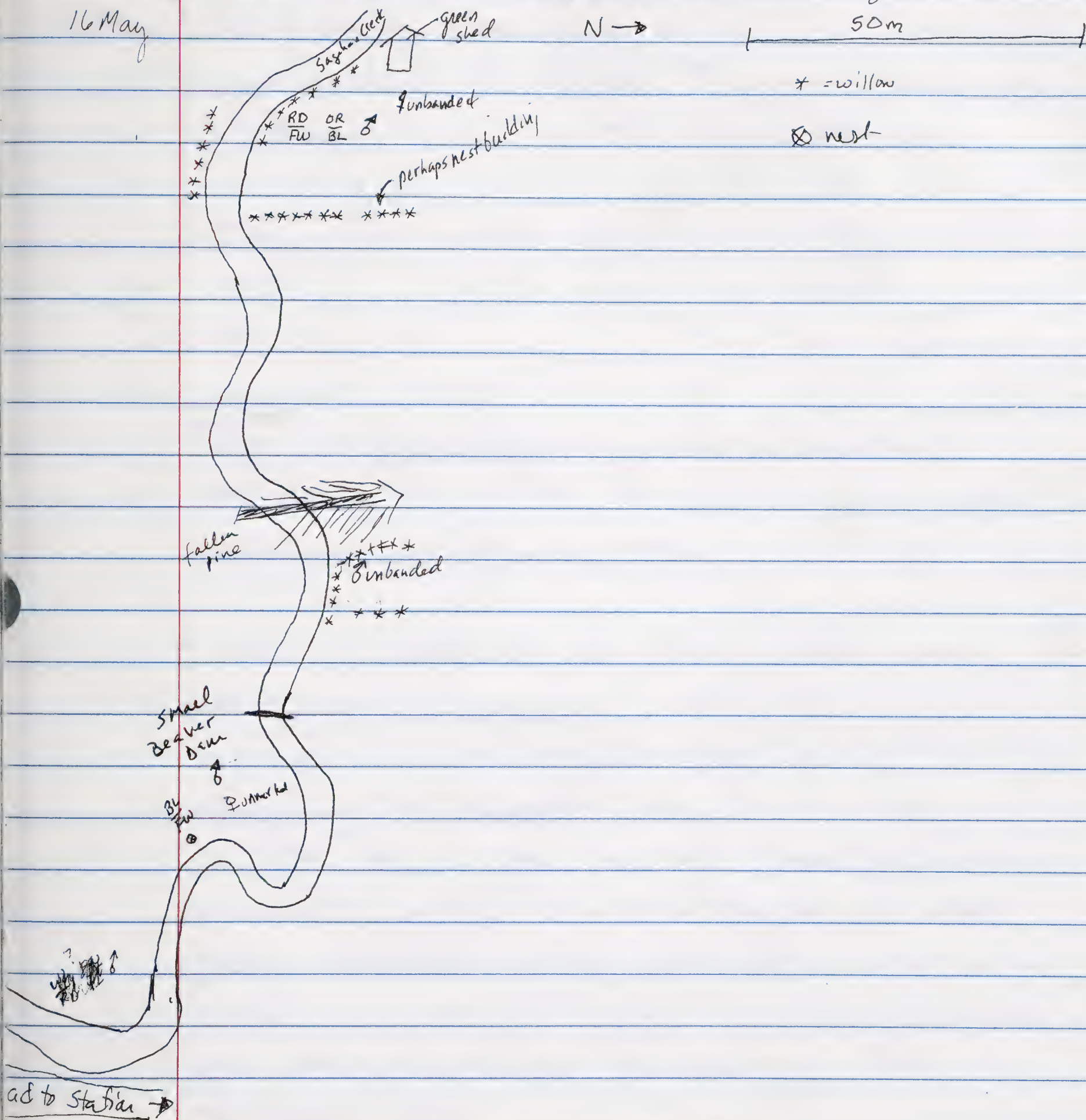
1990

Journal

168

Sagehen Creek Field Sta. 3 mi NW Hobart Hills, Nevada Co., Calif. 6300 ft

16 May



At the bend just W of rock pile I saw ♂ FW/BL ♀ BK with
unmated ♀ or is a ♂ BK/BL FW/BK

with, g

1990

Journal

169

Big Creek Reserve, 5 mi. N Lucia, Monterey Co., Calif 400 ft. elev.

21 May Found nest of unmarked pair W of ♀ ^{BC/FW} ^{BC/LR} in draw south of whale pt. Flushed ♀ off of 3 warm eggs. I damaged one egg so left a dummy in its place.

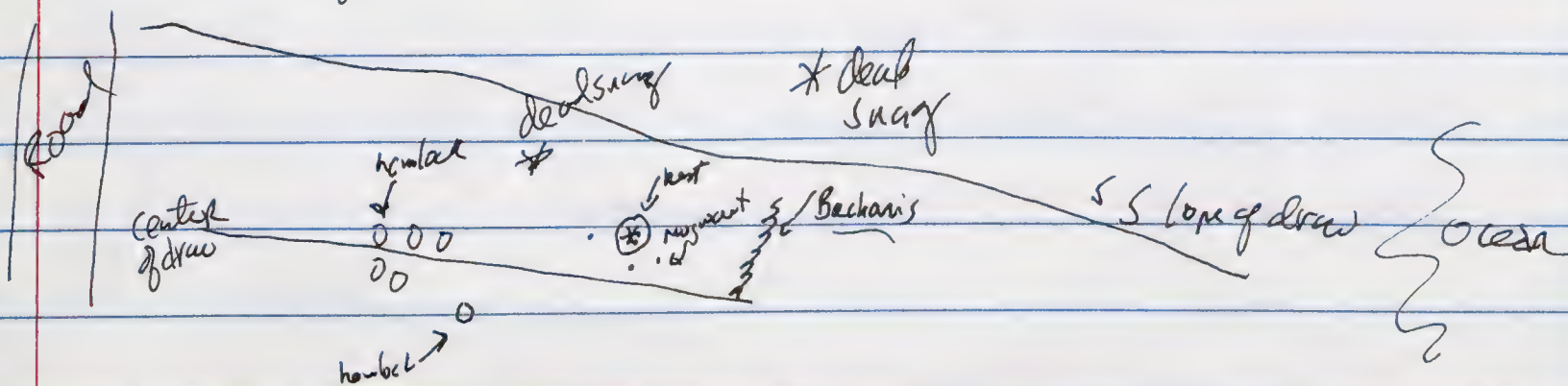
	1	2	3
L	20.36	19.28	19.75
w	15.09	14.98	15.17
wt	2.08		
inc			

broken ~~egg~~ ^{discarded} opened egg saw well developed eye ad veins and one feather

Nest checked at ♀ ^{BC/FW} ^{BC/LR} was empty, no sign of ♀ or fledglings, ♂ singing vigorously.

→ These egg shells were very flimsy - seemed too moist. I dented another of the eggs as I put it back in the nest! Agh. Checked nest 1 hour later. ♀ ad ♂ chirping, eggs seemed warm but in strange configuration in a straight line side to side OOO in nest cup.

Found nest of unmarked pair E up the draw from ♀ ^{BC/FW} ^{BC/LR}, I found nest with Bunies so I did not check it for eggs (also didn't want to risk another smashing) ♀ (unmarked) returned to nest ad is sitting on eggs(?) certainly she is not feeding young. I could not see anything in the nest when she took off. Nest 65 yds E of ^{BC/FW}'s nest. 50 yds west of Road



8

1990

Journal

170

Big Creek Reserve, San Lucia, Monterey Co., Calif. 400ft elev

21 May nest is 2' off ground. I placed a small *Baccharis* on N slope from nest 25yds if you peer at the flag the nest is right above it.

Nest check at wh/4c FW/BL ♂ (nest found 9 May). Nest empty no signs of fledging. Heard male sing in area and feathers of chick in chimney

Found nest of pair west of ^{PK/FW} ^{PK/RO ♂} 4 warm eggs quite close to road

	1	2	3	4
L	20.07	19.97	20.05	20.02
W	15.87	15.60	15.81	15.49
wt	—	—	—	—
inc	light	light	light/mud	light

Nest is 4' west of flag in *erigeron* and *spermatolite* stuff.

22 May Nothing going on in mellow yellow's draw aside from the nest I stopped on! When I saw the ♀ tumbled last week at the W end of draw she is no longer and there are many ♂'s singing in that area. It has been foggy all day with patches of sunlight.

Found nest (flushed unmarked ♀) in area where Diamond Jim had been, no sign of him but saw + heard unmarked ♂ in area with ♀. Nest is close to road and ~ 5 feet W of flag, nest is in a *Ceanothus* about 2' off ground not well-concealed

Sugar

27 May Transfer #1 - Nest furthest east of trio Σ of $\frac{W}{FW}$
2 eggs ♀ returned to laying eggs. Yesterday had 4 eggs

	1	2
L	19.71	20.17
W	14.78	14.78
WT	-	-

Transfer #2 nest of $\frac{Y}{FW}$? just E of nest
in them, nest cups warmer. had ~~control~~ egg

	1	2	3	4
L	20.67	20.71	20.46	20.85
W	15.42	15.13	15.17	15.33

Transfer #3 nest where $\frac{OK}{FW}$ was last yr just
E of $\frac{BL}{FW}$

		2	3	4
L	19.33	20.62	19.75	20.07
W	15.70	15.39	15.69	15.27

had a control

2828 hrs all 3 clutches into styrofoam
at $T = 34^{\circ}C$

Big chick

1531 hrs transfer #3 to 1st nest Sutterly
nest by Redwood stump. 4 warm eggs.

	1	2	3	4
L				
W				

Eig Creek

27 May

Nestling at top of whole pt draw
left leg

RL

BL 3.38

3.37

BD 3.07

2.97

BD 3.04

2.60

WL 11.55

12.80

TL 0

0

Tarsus 12.61

10.85

middle 13.43

14.97

hallux 8.03

7.55

noft 2.361°

2.961°

age 4 days?

4?

wt 8.0g

8.0g

claw

-

fat much fore

much

eyes slightly open


head still downy


Tranp * 2 goes to pair in bottom of b. bowl
probably 2nd clutch

Smith, J
1990

Journal

173

Big Creek Reserve, 5 mi N Luccia, Monterey Co. Calif. 4000 ft elev
27 May 4 nestlings born today (1 dg old in nest in
creanotus just N of farm) Bone
left  rt ~~both~~ none

SL	2.19	1.72	2.32	2.03
BD	2.56	2.36	2.07	2.13
BW	2.30	2.02	1.88	2.43
WL	5.55	5.19	6.56	6.97
TL	0	0	—	—
Tars	7.06	} 12.12	} 15.51	} 13.99
middle	6.57			
width	4.23	4.12	4.97	4.88 5.38
wt	3.08	2.5	4.0	3.0
gn	1			
fat	mod	s/t	some gut bulging	some gut bulging

28 May Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

0817 hours measurements of Big Creek eggs for transfer

Transfer #2 Flushed sagehen ♀ of 4 warm downed left and due to
nest clutch of 4

	1	2	3
L	19.87	20.14	19.65
W	15.27	15.84	15.15
		dentel	

Shells very soft - perhaps too hard in incubator

Transfer #3

	1	2	3	4
L	20.03	19.95	20.08	20.07
W	15.41	15.54	15.72	15.78

Flushed ♀ of 5 (1 cowbird egg) eggs, left 4 Big Creek eggs.

th. J

1990

Journal

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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

28 May

Transfer #1 was returned to home nest, it represents a complete control. The ♀ I am not certain is on eggs. Each of the other ♀'s of Transfers #2 + #3 gave me the impression they had accepted their clutches. I saw #2 ♀ return and stay on nest for at least 10 minutes.

29 May

Ken Hobson is with me today we are looking for nests & transfer clutches. Found nest of $\begin{matrix} BL & BW \\ BL & BL \end{matrix} \begin{matrix} \text{♀} \end{matrix}$ it is in a willow ~ 1 1/2' off ground just N ~ 4 feet of long bowing dead tree. 3 eggs and one newly hatched marked ♂ was in attendance too.

Nest of FW/BL 1/64 ♂, + marked ♀, 4 nestlings 2 days

	1	2	3	4
BL	3.07	2.82	3.06	2.07
BD	2.61	2.33	2.50	2.36
BW	2.97	2.56	2.58	2.04
WL	6.56	7.39	6.45	5.81
TL	0	0	0	0
Tarsus	6.55	6.71	6.29	5.73
mid toe	7.80	7.88	7.93	6.25
hallux	4.25	4.38	4.40	3.84
eye	2	2	2	1
wt	3.0g	3.0g	2.50	2.0g
fat	much	much	some	slt
molt	downy yrs slit			very little down

175

—



with, g
1950

Journal

176

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Mendocino Co., Calif 95521

31 May

$\left[\begin{smallmatrix} BL \\ FW \end{smallmatrix} \right] \begin{smallmatrix} PK \\ RO \end{smallmatrix}$ ♂ ad unmarked ♀ had nest of 4 chicks
- 5 or 6 days old found chicks frozen solid in nest
this morning. $T = 27^{\circ}F$. It rained 2 inches last night.

Also found nest of ♂ parent & last yr I believe $\frac{BL}{FW}$
something & chicks ~ 2 days old. Did not measure too cold.

Found nest of $\left[\begin{smallmatrix} BL \\ FW \end{smallmatrix} \right] \begin{smallmatrix} PK \\ RO \end{smallmatrix}$ ♂ ad unmarked ♀ 4 eggs flushed
♀ fledged nest.

4 June

Big Creek Reserve, San Lucia, Monterey Co., Calif 94026
All nests (including all transfers) empty!

5 June

Found nest of $\left[\begin{smallmatrix} BL & FW \\ PK & GR \end{smallmatrix} \right]$ ♂ 2 eggs, unmarked ♀ in sage
quite near E end (top of draw), 40 yds N of 1/4's 1st nest.
No sign of mellow yellow there is a new unbanded ♂
in his territory.

8 June Sagehen Creek Field Station

Transfer #3 hatched 2 young, 2 unhatched eggs
flushed ♀

BL 3.26

BL 2.88

BL 2.28

WL 10.81

TL 0

Tarsus 10.78

12.24

6.68

3.00 - 2

1.02

age 24 days

wt 8.50g

fat some

hatched

2.52

2.44

2.82

9.42

0

8.74

10.77

6.47

3.46

3 days

10.0g

some

with, J
1990

Journal

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~~Sagehen Creek Field Sta., 3 mi NW Hobart Hills, Granada Co, Calif 6300ft~~

8 June

4 nestlings of

^{RW}FW ^{BK}BR ♂

and unmarked ♀

	left leg 1	right leg 2	both legs 3	unmarked 4
BL	3.48	3.20	3.10	3.45
BD	2.78	2.98	2.89 2.79	3.15
BW	2.79	3.14	2.92	3.23 3.23
WL	12.42	13.44	11.35	13.31
TL	0	0	0	0
Tarsus	11.70	10.83	10.05	11.02
middle	14.44	15.07	14.64	15.20
hallow	8.19	8.23	7.67	8.29
molt	^{3rd 10} downy	⁰ 2.19	⁰ 1.64	⁰ 3.02
age	3 days	3	^{maybe 2} 3 day	3
wt	8.0g	8.0g	8.0	9.0g
fat	some	some	some	much
	eyes closed			

4 nestlings of ^{BL}FW ^{PK}RD ♂ nestlings jumped as I grabbed the

8 June

77-96038/x

^{BK}x

77-96039/x ^N1/2

40x ^B1/2

41/x ^N1/2

BL	5.61	5.67	6.18	5.94
BD	4.32	4.36	4.56	4.22
BW	4.14	3.91	4.30	3.93
WL	41.28	44.02	41.36	39.52
TL	13.07	17.11	12.65	10.36
Tarsus	18.87	17.31	17.76	18.03
middle	18.30	19.63	19.19	19.28
hallow	13.29	13.74	12.65	12.63
molt	^{22.05} 29.18 ^{3rd 11} ^{3.64} tail 13.07	^{18.93} 29.07 ^{5.12} 17.11	^{18.53} 28.85 ^{4.07} 12.65	^{14.66} 27.14 ^{2.79} 10.36
eyes closed	8.88	8.59	8.60	8.04
fat	much	much	much	some
wt	17.2g	17.50	16.0g	16.0
age	9 days	9	9	9

Smith, J
1990

Journal

178

Sagehen Creek Ined Sta., 3 mi NW Hobart Mills, Nevada Co., Calif

9 June

Transfer #40) ^{BL}BL ^{BL}FW 3 warm eggs flushed ♀

	1	2	3
L	19.19	19.05	19.69
w	14.66	14.90	15.20
wt			
inc light		light	light

Transfer #2) 5 ♀ sw of ^{BL}BL 4 warm eggs ♂ has an OR band
possibly right leg

	1	2	3	4
L	20.28	19.48	19.98	19.61
w	15.31	14.63	15.05	14.89
wt				
inc light/med	med		med/light	med/light

Transfer #3) 6 Easterly most pair 4 warm ^{Flushed ♀} eggs

OR ^{BL}BL
FW

	1	2	3	4
L	19.63	18.91	20.09	19.78
w	15.55	15.36	15.37	15.46
wt				
inc light		light	med	med

Put in styrofoam T=36°C 1242 hours leave for Big Creek
Arrive Big Creek 1930 hours T=30°C.

Big Creek Reserve, 5 mi N of Big Creek, Monterey Co., Calif 4000 ft

Plugged in incubator at 1930 hours at 2000 hrs was
102° dry 95°F wet so took out water and turned down. The

with. g
1990

Journal

179

Big Creek Reserve, San Xelieia, Monterey Co. Calif 400ft

9 June eggs are still in the styrofoam. I will wait for incubator to equilibrate then I'll put them in. The incubator is 115V and draws 40 watts. I have it set up on the specimen care in the laboratory near John's desk. It is out of direct sunlight. We are using an extension to run it off of the battery current. Took K I-80 to I-5 to 152W to 156W to ^{Thors tip} D5. Seemed faster than going all the way to 680 or down I-5 to 156W. Also may be short cut to 152W via (33). I used a flashlight to candle them. Light means that there is a red translucent ball surrounded by lighter area it is not dark anywhere. 2216 hours hard to get incubator with proper wet bulb. Seems to be too humid ~92°F wet bulb and 100°F dry bulb. Have set reservoir at lowest point after having it off for 20 minutes. After 20 minutes without the reservoir the dry was 100°F and wet was 87°F, I am not confident to leave it over night without the reservoir so I put it back on. 2246 hrs incubator may have equilibrated at dry = 100°F and wet = 87°F. Eggs have been in incubator for 30 minutes now.

I will wait 20 more minutes then go to sleep after a last check on the incubator. 2354 hours dry = 99°F; wet = 84°F

10 June 0526 hours dry bulb T = 100°F, wet T = 100°F There was no H₂O in pans. 0600 dry T = 94°F, wet T = 86°F. 0825 hours dry T = 97°F wet T = 86°F. Nest in bowl with first 2x4" enclosure was abandoned, 4 eggs are measured

	1	2	3	4
L	18.83	19.35	18.71	18.63
W	14.38	14.55	14.15	14.63



Smith, J

1990

Journal

180

Big Creek Reserve, San Lucia, Monterey Co. Calif 400ft

10 June

Nest above exclosure nest was eaten.

Transfer #5 (box 2) will go to pair at bottom of favorite bowl in Redwood. This pair is also pair of transfer #3. ^{3 eggs flushed}

L 19.53 19.73 19.88

W 14.98 15.20 15.66

Transfer ~~#4~~ #4 (box 1) will go to unmarked pair at top of bowl ~~2nd bowl~~ where yellow yellow used to be (2nd bowl S of whole pt.)

3rd egg I guessed which one was hers laid 11 June

L 19.34 19.30 19.96

W 15.57 15.50 15.72 smudge 8

I flushed ♀ 2 eggs but do not believe she is incubating, so I will not put in Sayer's eggs until tomorrow.

Transfer #5 eggs were removed from incubator 1230 hrs
dry T = 98°F wet T = 93°F

Transfer #6 (box 3) pair at top of whole pt. Took 2 eggs & do not think incubation has begun. Put exclosure around the nest. Flushed ♀ 1st time heard male sing. This is same pair who had banded nestlings on 27 May 1990. Now nest is 3 yards S of old nest in Achillea.

eggs labeled 3A. will exchange Sayer's eggs for dummies tomorrow

laid 11 June

1 2 3
L 20.25 20.32 20.56

W 14.73 14.77 14.99

inc Light Light not candled or labeled

To decrease wet bulb add H₂O -

June 19
1990

Journal

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Big Creek Reserve, 5 mi N Lucia, Monterey Co, Calif 400 ft

10 June Found nest of $\left[\begin{smallmatrix} \text{wh} \\ \text{YL} \end{smallmatrix} \begin{smallmatrix} \text{F4} \\ \text{BL} \end{smallmatrix} \begin{smallmatrix} \text{♂} \end{smallmatrix} \right] + \left[\begin{smallmatrix} \text{GL} \\ \text{PK} \end{smallmatrix} \begin{smallmatrix} \text{PW} \\ \text{WH} \end{smallmatrix} \begin{smallmatrix} \text{♀} \end{smallmatrix} \right]$ saw at least one unhatched egg at one ~1 or 2 day old nestling. Both parents in the vicinity will try to measure tomorrow.

11 June 0941 hours all eggs out of incubator at dry = 100°F, wet T = 83°F. Into styrofoam at T = 37°C

Transfer #6 1017 hours flushed ♀ off 2 dummy eggs plus 1 new one of hers - eggs were warm just in of transfer eggs. She seemed unaffected by the wire! Her new egg is added on page 181

Transfer #4 flushed female off of 3 warm eggs 2 dummies and 1 new egg. I forgot to mark the dummies so I'm not sure which one is hers so will not measure.

Put up excluder and dog away with pepper. 1104 hours for Transfer.

Sagehen Creek Field Sta. 3 mi NW Hobart Wash Nevada Co Calif 6300
1809 hours T = 32°C in incubator styrofoam. Will put egg back into Sagehen nests now.

Transfer #6 - flushed ♀ off of 4 warm dummy eggs replaced with 3 Big Creek eggs and 1 dummy. Dog away and pepper did not leave ♂!

Dog away & pepper { Transfer #4 - now had 4 warm eggs (flushed ♀) she must have laid one today. I took out all the eggs and replaced with 4 ~~new~~ eggs (3 real + 1 dummy).

Transfer #5. ♀ not on eggs but seemed warm at nest ^{4 dummies removed} top warm. As I was transferring eggs Sparrow came into willow near nest and distressed called.

uth, 7
1990

Journal

Sagehen Creek Field Sta., 3 mi NW Hobart Mills Nevada Co, Calif 6300ft

12 June

Found nest of RD/FW ^{OK}/BL ♂ ad marked ♀ 3 eggs

	1	2	3
L	20.55	20.56	21.02
W	15.71	16.06	15.61
	med	hvy	med

low bird?

labeled eggs. Not sure if incubation begun. Pepper
+ Dy away

Banding day for Transfers #3 measured 15 + 8 June

77-96042 left leg / ^{right} RD / RD

77-96043 / RD / RD

BL	4.95
BD	3.55
BU	3.40
WL	27.00
TL	6.72
Tar	14.34
Midtar	19.81
Valley arch	11.61
no ft	$\frac{0.59}{16.52}$ 3rd 10, $\frac{0.55}{23.79}$ feather shaft not whole tail
fat	much
wot	14.0g
sand	7.12
age	7 days
	previously marked on left leg

4.63
3.09
3.38
23.75
3.85
32.66
10.65
$\frac{0}{11.99}$, $\frac{0.30}{2.51}$
much
13.0g
6.12
6 days

with 10%

1990

Journal

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18 June

Big Creek Reserve, San N Lucia, Monterey Co., Calif. 40 ft

Transfer #4 / ^{mellow yellow's territory} nest empty, heard a male sing in the area
no sign of ♀ no sign of any activity under the enclosure
Nest cup was tilted slightly to the E but as I recall it was
this way initially too

Transfer #6 (Pair at top of whale pt draw). 4 warm eggs
heard ♂ sing and ♀ climp. I will increase the fence
around her nest taking the circle from transfer #4's deserted
nest.

Packard prop

19 June

Found nests of ~~FW/BL~~ YL/OR FW/BL ♀ put in enclosure
4 warm eggs into incubator dry T = 98°F
and wet bulb T = 83°F at 1300 hours had
been held in Myrofan T = 28-28°C for
1 hour labeled transfer #1

Found nest of pair E of FW/BL in Sycamore
grove of Packard property 4 warm eggs labeled
2.

Found nest of pair at bottom of mellow
yellow draw about 4 feet up in a Bracken
Fern (4 warm eggs labeled 3).

Transfer #7 (labeled #1) enclosure nest 8' circumference

	1	2	3	4
L	19.29	18.76	19.82	19.65
W	15.47	15.21	15.53	15.27
	med	med	med	med

I cannot reach my arm into the nest from outside enclosure

with 19
1990

Journal

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Big Creek Reserve, Santa Lucia, Monterey Co., Calif 9000ft

19 June

Transfer #8 (labeled 2)

	1	2	3	4
L	19.37	19.89	20.06	20.21
W	15.56	15.37	15.53	15.83
inc	med/light	med	med/light	med/light

Transfer #9 (labeled 3)

	1	2	3	4
L	19.73	19.80	20.69	19.43
W	14.64	15.23	15.04	14.84
inc	med med	med med	med	med/hvy

Found a new unmarked pair when $\frac{wh}{pk} / FW$ ♂ used to be. Nest had ^{#10} 2 cold eggs total parents chirping and dry ticking. I took the 2 eggs and will place them in incubator. Will return tomorrow for the next installment. Left 2 blue canopy eggs. Flayed, dog away and peppered nest area. Heard no singing by pair in bottom of draw from this new pair (i.e. transplant #1 guys) perhaps they moved up and usurped $\frac{wh}{pk} / FW$'s territory.

Checked nest of $\left[\frac{wh}{pk} / FW \right] + \left[\frac{GR}{pk} / \frac{FW}{wh} \right]$ empty. Fly appeared to have moved 5 days weeked.

Transfer #10 (labeled 4)

	1	2	into incubator 1924 hours
L	20.36	19.99	dry T = 98.5°F, wet T = 85°F
W	15.54	15.90	
inc	light	light	

ith, J
1990

Journal

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Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400ft

19 June Re-checked transfer #7 (~~or 4%~~ ^{FW} _{BC} ♀) at 1900 hours
♀ flushed off dummy eggs ran along the 2" wide
board I had placed under her nest as a support
and exited to cage. ♂ sang.

20 June Checked transfer #6 at top of whale point, ♂ sang, ♀
was observed carrying food to the nest at 0700 hours!

Transfer #5 hatched today / nestly looks very
weak left by labeled 1150 hours

BL	Tarsus	caliper malfunction could not measure him gave - 1 day
BD	mid toe	
BW	hallux	
WL	wt	every time nestly breathes it seemed to labor with the breath opens its bill and pull the air into the lungs
TL	fat	

3rd egg of Transfer #10 (labeled 4) laid today
3

L 20.70
W 15.96
inc laid today

into incubator 1320 hours dry T=100°F, wet T=84°F

BL 2.06	Tarsus	} 12.97	age - 1 day
BD 2.10	mid toe		
BW 2.00	hallux	4.91	
WL 5.84	wt	1.5g	
TL 0	fat	some shoulder	

Lead milk! 1428 hours

th, 9
1990

journal

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Big Creek Reserve, San N Lucia, Monterey Co., Calif 400 ft

20 June

Transfer #6 - Pair at top of whole pt 2 unhatched eggs left

left leg

right leg

BL 2.52

2.69

BD 2.61

2.57

BW 2.42

2.32

WL 7.27

7.16

TL 0

0

Tarsus
mid toe } 15.48

} 14.85

Wing 5.12

4.76

age 2 day

2

fat much scap

much

wt 3.5g

3.5

molt down, eyes closed

down, eyes closed

Forced nest of $\left[\begin{matrix} Wh/BL \\ Fw/BL \end{matrix} \right] \sigma$ and $\left[\begin{matrix} GR/PK \\ Fw/Wh \end{matrix} \right] \phi$ 2 cool eggs

removed 1533 hours placed in styrofoam at $T=32^{\circ}C$

put in 2 canary eggs. Eggs were cool to touch, flushed ϕ

Eggs of $\left[\begin{matrix} Wh/BL \\ Fw/BL \end{matrix} \right]$ labeled 5 Transfer # 11

1

2

L 20.29

19.99

W 16.09

16.00

inc not begun yet

into incubator 1724 hours dry $T=99.5$ wet $T=84$

21 June

All eggs out of incubator at 0617 hours dry $T=99.5^{\circ}F$, wet $T=82.5^{\circ}F$
into styrofoam at $T=32^{\circ}C$ (probably higher b/c lid is off).

Fin off to pick up new eggs at transfers #10 & 11.

2, 9
1990

Journal

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Big Creek Reserve, San N Lucia, Monterey Co. Calif 400 ft

21 June 0710 hours there are no new eggs. I am concerned that $\left[\begin{smallmatrix} \text{OR} / \text{PK} \\ \text{FW} / \text{WH} \end{smallmatrix} \right] \sigma$ may have deserted. σ sang as I stood at nest but I never heard anything from σ . The nest cup was dry but not warm, I added 2 more canary eggs, dry and of pepper. Likewise at pair $\left[\begin{smallmatrix} \text{CH} / \text{PK} \\ \text{FW} / \text{WH} \end{smallmatrix} \right] \sigma$ territory no new eggs. Canary eggs felt like water but not hot nest cup dry, one of the parents σ was chirping while I was at the nest, this stopped when I left territory and stood at car, I added a 4th canary egg to this clutch. Leaving Big Creek for Truckee 0713 hours. 0719 hours saw σ at $\left[\begin{smallmatrix} \text{WH} / \text{PK} \\ \text{FW} / \text{WH} \end{smallmatrix} \right] \sigma$'s old territory with σ at return to nest!

22 June Sagehen Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

Yesterday I arrived at the station at 2pm

Transfer #7 to $\left[\begin{smallmatrix} \text{PK} / \text{FW} \\ \text{OR} / \text{BK} \end{smallmatrix} \right] \sigma$ and unmarked σ This is not him σ is unmarked but in territory where PK / FW was in 1989.

	1	2	3	4
$\left[\begin{smallmatrix} \text{PK} / \text{FW} \\ \text{OR} / \text{BK} \end{smallmatrix} \right] \sigma$	20.91	21.35	19.96	20.79
$\left[\begin{smallmatrix} \text{PK} / \text{FW} \\ \text{OR} / \text{BK} \end{smallmatrix} \right] \sigma$	15.88	15.74	15.40	15.73
$\left[\begin{smallmatrix} \text{PK} / \text{FW} \\ \text{OR} / \text{BK} \end{smallmatrix} \right] \sigma$	huy	huy	huy	huy

out of inc dry $T = 37^{\circ}\text{C}$, wet $T = 29^{\circ}\text{C}$. time is 1558 hours

Transfer #9 (labeled 3) to unmarked pair σ of $\left[\begin{smallmatrix} \text{BL} / \text{BL} \\ \text{FW} / \text{FW} \end{smallmatrix} \right] \sigma$

	1	2	3	4
$\left[\begin{smallmatrix} \text{BL} / \text{BL} \\ \text{FW} / \text{FW} \end{smallmatrix} \right] \sigma$	19.63	20.04	19.80	19.60
$\left[\begin{smallmatrix} \text{BL} / \text{BL} \\ \text{FW} / \text{FW} \end{smallmatrix} \right] \sigma$	15.17	15.17	15.00	14.64
$\left[\begin{smallmatrix} \text{BL} / \text{BL} \\ \text{FW} / \text{FW} \end{smallmatrix} \right] \sigma$	huy	huy	huy	huy

Both clutches (Sagehen eggs) were warm heard parents sleeping

Sutcliffe

Journal

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Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft elev.

22 June into incubator 1658 hours dry T = 36.5°C wet T = 29.5°C

23 June Transfer #8 + #10 out of incubator 1200 hours dry T = 37°C, wet T = 28°C

Transfer #8 labeled 1 goes to ~~34~~ ³⁴ ~~FW~~ ^{FW} ♂ + unmarked ♀ at main stockpile

	1	2	3	4
L	20.33	20.32	19.96	20.23
W	15.51	15.67	15.24	15.07
inc	huy ^{study} ^{open}	huy	huy	huy ^{cracked}
	4 eggs transferred, 4 warm eggs	pick -	flushed ♀	

Transfer #10 labeled 4 goes to RD ^{FW} ^{BL} ^{BR}

	1	2	3	4
L	20.56	20.59	20.59	20.28
W	15.48	15.60	15.61	15.38
inc	med	med/light	med/light	med

3 eggs at 1 dummy left in nest, 4 eggs taken.

Transfer #11 out of incubator 1330 hours dry T = 36°C, wet T = 28°C

2 eggs to transfer adding 2 dummies. Go to rain just W of

lost Pair in singing site. Into incubator 1500 hours ^{dry = 37°C} ^{wet = 28°C}

	1	2	3	4
egg ^{labeled}				
L	20.80	20.10	19.09	19.11
W	15.39	15.45	15.02	15.25
inc	huy	huy	huy ^{cracked}	huy

flushed ♀ of 4 warm eggs. Log any at pepper

nest check at Transfer #3 one chick ~ 1 day old 3 unhatched

eggs flushed ♀. ~~flushed~~

Smith 19
1990

Journal

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Sagehen Creek Field Sta. 3mi NW Hobart Mills

Nevada Co. 6350ft.

23 June, 1990

23 June

Transfer # 4 Put up exclosure.

	BL/BL	FL/BL		
	1 (LL)	2 (RL)	3 (BL)	one unhatched egg
BL	2.25	2.10	2.35	
BD	2.12	2.0	2.27	
BW	2.21	2.14	2.09	
WL	6.43	5.72	7.34	
TL	0	0	0	
Tar	5.84	5.48	6.54	
Mid Toe	7.35	6.67	8.13	
hallux	4.14	3.85	4.71	
Fat	some	some	some	
wt	3g	2g	3.5g	
age	2?	2 (F-2)	2	
molt	downy/ eyes closed	downy/ eyes closed	downy/ eyes closed	

Collected 2 fledglings 77-96038 + 77-96040, ♂ visible
♀ not heard 2 more fledglings in area

24 June

Measuring young of wh/AD FL hatched 2 days ago (there was one chick + 3 eggs on Friday 22nd)

	1	2	3	4
BL	2.20	3.09	2.90	2.50
BD	2.71	2.69	2.90	2.85
BW	2.08	2.92	2.58	2.28
WL	6.97	8.45	8.28	7.70
TL	0	0	0	0
Tarso	5.90	6.81	6.59	6.92
mid toe	7.90	10.24	8.83	8.75
hallux	4.53	5.40	4.79	4.73
fat	some	much	some	some
wt	2.00 3.0	4.50 5.0	4.08 4.5	3.00 3.5
age	-3 (2?)	3	3	3

Molt downy eyes closed down down down down
when I found nest, it was 120 hours and there was only 1 hatched. I measured them at 0+0 hours so they are 3 days
2nd nest for this pair
Flushed ♀

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1990

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Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., California, 6300 ft.

24 June

6300 hours Observed ♀ at transfer #3³ carrying nesting material. Both she + male were "chipping" and ~~the~~ "chuping" - indicative of fledgling but as yet no positive id on either fledgling they should have fledged a week ago

→ I think #6 lost most pair
Measuring at Transfer #3 yesterday there was 3 eggs + one chick.

	1	2	3
BL	2.46	2.76	2.29
BL	2.72	2.42	2.20
BW	2.12	2.48	2.27
WL	7.16	7.46	6.31
TL	0	0	0
Tarsus	6.98	5.97	5.50
Midh	8.00	8.74	7.40
hally	4.44	4.56	4.34
fat	some	some	some
wt	2.0 3.0	3.5g	3.0
molt	downy	downy	

age 2 days

Flushed ♀ of 3 2 day young. This is still early on 2nd day of 024 hrs.

Remained downy egg ~~Weight is very low~~ ~~Weight is very low~~ ~~Weight is very low~~ (too light)

Flushed ♀ $\frac{BL}{BL}$ $\frac{FW}{BL}$ (Transfer 4) out of enclosure. 3 downy chicks remained in hatchery egg. 024 hrs.

All eggs out of incubator 0247 hours dry T = 37°C wet T = 30°C
+ into styro foam 6018 hours T = 37°C

Big Creek Reserve, 5 mi N Lucia, Monterey Co., California 4000 ft

1732 hours Transfer 8 + 9 complete out of styro foam T = 32°C

Flushed ♀ of 3 only 3 downies at #8. Did not ^{were 4 originally}

flush ♀ of 9 but eggs were sort of warm and individuals were chipping - put up enclosure.

Female was not on eggs at #10 but both she + male were in the vicinity. I removed 4 canary eggs and replaced with 4 transfer eggs. ♂ + ♀ chipping madly as I set up

with 19
1990

Journal

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Big Creek Reserve, Santa Lucia, Monterey, Co., California 400 ft

24 June an exclosure. At transfer #11 there was no one around did not leave
Sagehen eggs there were still 4 canopy eggs in there. At transfer #9
I marked 4 of 3 dummies + heard 1 say. I am pretty sure I
put in 4 dummies - I do not know what happened to it. I decided
not to use the Sagehen transfer eggs at child #11, I feel at this
point if the exclosures work I need some flexible coastal
growth data I am staying with. Feyner tonight because the
archaeologists are at main camp.

25 June

Next check at Transfer #6, ^{top of branch pt} can hear parents chirping and singing
R+L marked left leg marked measured at 1017 hours

DL 3.90
BD 3.76
BW 3.18
WL 24.48
TL 2.68
Tarsus 15.64
Mid toe 17.51
Hallux 11.25
Foot much
Wt 15.5g

4.35
3.51
3.48
~~25.08~~ 22.71
2.25
16.52
19.22
10.92
much
15.0

Removed
2 unmatched
eggs from nest
Both are 7 days old

Molt 3rd 0
11.46 tail 0
1.58

3rd 0
9.56 tail 0
6.53 1.41

Roundness 7.88

Banded 77-960501 R0180

77-96051 R0180

primary coverts have just
broken through of this moulting
stage.

Transfer #5 had 2 cold eggs abandoned!
Parents at Transfer #6 both caught in mist nest

Band no 77-96052 OR R0180
BL 8.05
BD 5.60
BW 4.37
WL 60.87
TL 64.05
Tar 17.68
Mid toe 17.68
Hallux 13.41
Foot much
Age ad
Wt 14.04
Roundness 14.29
Molt no

OR 77-96053 R0180
BL 8.70
BD 5.57
BW 4.80
WL 56.55
TL 58.88
Tar 18.72 16.86
Mid toe 15.48 17.73
Hallux 14.98
Foot much
Age ad
Wt 17.08
Roundness 11.90

Parents flicking scales

with, J

1990

Journal

192

Big Creek Reserve, 5 mi N Luccia, Monterey Co., Calif., 400 ft.

2 July

All transplant nests empty! Everything quiet.

3 July

0500 hours Looking for fledglings at Transfer #6. Saw one banded adult heard it chirping with mate. No sign of fledglings. Very quiet.

♂ could give only partial song without much energy. Stayed at Feynner's last night. He was supposed to arrive late from Santa Cruz but never showed. He is a Heineken drinker, Rum, Tequila and Red wine.

Picked up liquid N₂ tank 2 days ago 10L. The only enclosure that appeared tampered with was where PK/FC used to be. At this nest the enclosure was pushed up and nest cup tilted at 90° down toward side where enclosure had been tipped. At all others the enclosures were firmly in place. I believe I need to put on tops, to keep out Japs. Talked with Mark Reynolds on the phone last night. He said he had banded both transplants! But, unfortunately had broken one nestling's leg so one has only 2 red bands no metal.

Found nest of pair in middle of favorite bowl

	left	right	both
	1	2	3
BL	3.53	3.56	3.40
BD	3.39	3.00	3.18
Blw	3.52	2.77	2.99
WL	15.27	14.61	13.53
TL	0	0	0
Tar	13.72	11.26	11.62
mid toe	14.76	15.45	14.03
halley	8.86	8.04	8.59
fat	some	some	some
age	~4	~4	~3
wt	8.50	10.00	8.04
no H	drum eyes open 3rd 1° 0 5.61	3d 0 4.54	0 4.21
Round	4.84	3.58	5.95

Put enclosure around nest and draped hardware cloth over the top. 2 hours later 1730 ♂ + ♀ were in the area with bills full of food.

Smith, G.
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Journal

193

Big Creek Reserve 5mi N Lucia, Monterey Co., Calif 400ft

3 July

I saw what I thought was the ♀ go into enclosure feed nestlings and exit 1' from bottom of enclosure thru the fencing carrying a feed sac. I also saw a Scrub Jay in the vicinity!

4 July

Found nest ^(-3?) of pair at PK/K's old spot no eggs but cup looks complete. Feguer said that Big Sur Inn has good pancakes + open for breakfast 0800 hours - 1100 hours, then reopen 1630 hours for dinner.

Today I have seen 4 individuals throughout the study area with only one tail feathers or none, another bird appeared to be molting body feathers.

5 July

Banding day for three nestlings found on the 3rd.

Band no	Both legs marked		Left leg 2		3 Right leg	
	77 960541X	PK K	77-96055 X	PK K	77-96056 X	PK K
BL	3.56		4.03		3.87	
BD	2.97		3.08		3.53	
BW	2.72		3.18		3.21	
WL	14.85		21.55		22.72	
TL	1.85		2.75		2.92	
Tar	14.56		14.05		14.08	
Mid	15.09		17.10		17.23	
hallow	9.37		10.21		10.20	
fat	51+		Some		Much	
age	5		6		6	
wt	7.60		10.00		12.50	
molt	3rd 1° $\frac{0}{9.44}$, tail $\frac{0}{0.42}$		$\frac{0}{11.42}$, $\frac{0}{0.90}$	2ndary coverts + 11% cent broken sheath 1st 2ndary broken sheath	$\frac{0}{10.53}$, $\frac{0}{.69}$, 2ndary coverts broken sheath	
Round	4.91		6.03		5.82	

th, g
1990

grouse

194

Sagehen Creek Field Sta. 3 mi NW Hobart M. Hs, Nevada Co, Calif 6300ft

6 July Transfer #7 2 7 day old chicks one unhatched egg

BAND NO 77-96057/1 RD/RO 77-96058/1 RD/RO

BL	5.08	5.05
BD	4.29	3.75
BW	3.81	3.67
WL	36.19	32.40
TL	10.12	8.84
Tar	18.55	14.33
midtr	18.08	18.04
halley	12.09	11.58
fat	Much	Much
age	9?	8?
noH	31d $\frac{10.50}{23.39}$, tal $\frac{1.77}{8.77}$	$\frac{7.46}{20.88}$, $\frac{1.03}{8.44}$
Round	8.12	8.00
wt	16.0g	15.0g

yellow legs + feet

This nestling hopped out as I was putting enclosure back over nest could not re-find it. Left other nestling in nest.

Transfer #9 3 30 day olds hopped out but I retrieved

BAND NO 77-96059/1 RD/RO 60/14 RD/RO 61/14 RD/RO

BL	5.37	5.40	5.61
BD	4.22	4.32	4.10
BW	3.69	3.94	3.92
WL	38.32	34.09	37.21
TL	11.05	10.30	12.76
TAR	17.62	17.76	17.87
mid	17.98	17.57	17.62
halley	13.57	11.97	13.05
fat	Much	Much	Much
age	11	11	11
wt	$\frac{15.24}{25.41}$, $\frac{4.89}{10.41}$	$\frac{12.73}{22.97}$, $\frac{2.51}{9.06}$	$\frac{14.08}{24.76}$, $\frac{3.22}{8.91}$
Round	9.66	11.08	8.94
	16.0	16.0g	16.0

one hopped out
2 still in

Journal

195

Seah

6 July

Transfer # 8 abandoned, one egg was on ground next to nest
2 unhatched eggs in nest and 1 egg with 1 cm³ hole and empty left in nest

Transfer # 10 RD ^{BC} ~~FW~~ ^{GR} 2 nestlings one downy egg left

Wt 1

Right

2

BL 3.97

3.65

BD 3.34

2.90

BW 2.86

3.09

WL 19.99

14.67

TL ~~2.98~~ 2.82

↪

Tare ~~13.92~~ 14.11

11.12

Mid ~~19.12~~ 19.66

16.41

~~19.12~~ away

hallex 10.40

9.44

fat much

much

wt 11.50

9.00g

molt ⁰ 8.40, ⁰ 0.98

⁰ 3.88, 0

Round 6.02

3.44

egg ~~4~~ 4

3

yellow cast to legs



1990

Journal

196

Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., (alt 6360 ft)

16 July

Transfer #11 3 nestlings! Should be only 2, one of the daughters hatched! One of the chicks is especially small and looks almost albino

♂ banded BK/PW BK/BR

D.R.

left 1

rt 2

3 albino

BL

3.50

3.51

2.63

AD

3.08

2.71

2.47

BW

2.81

2.99

2.63

WL

14.46

19.91

8.17

TL

0

0

0

TAK

12.01

31.88

13.72

Wd

16.90

10.61

4.77

Wally

10.14

fat

much

much

set

wt

10.0

13.0

4g

soul

3.00

4.24

0

age

3

4

+1

molt

2.73 3rd 10,

7.75

downy

The unhatched egg is labeled one with a rapidograph and measures L 20.50 w 15.69 could be BK/PW's egg?

Not check at transfer #6 certainly most pair ♂ banded OR/PW ♀ BK/PO, ♀ unbanded both responded to pishing by flying in and chirping, nest empty.

Smith, J
1990

Journal

197

~~Sagehen~~ Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6310 ft

6 July

Nest check at Transect #4 BYOL BYFW nest
empty adults very agitated, responded to
disturbance

7 July

Found 2nd nest of pair with transect #3. Also thought I saw
fledgling chase male.

2nd clutch 3 warm eggs labeled 1

	1	2	3
L	9.87	20.64	20.01
W	15.34	16.06	15.72
inc	hvy	hvy	hvy

into incubator 1010 hours wet T = 30°C, dry T = 37°C

collected transect chicks at #3, band no.'s
77-96042 and 77-96043.

Nest checks at transects #7 + 9 nest cups empty + parents agitated.

I saw ♀ of $\frac{FW}{BL}$ $\frac{BL}{BR}$ carrying food, perhaps feeding begging fledgling.

Saw copulation at pair just W of transect #7.

8 July

Heard fledgling burry at transect #4 ($\frac{BL}{BL}$ $\frac{FW}{BL}$ ♀).

$\frac{FW}{BL}$ $\frac{BL}{BR}$ ♂ feeding fledgling with unmarked ♀. $\frac{RD}{GR}$ $\frac{FW}{GR}$ ♂ singing, but no

sign of ♀. $\frac{FW}{OR}$ $\frac{BL}{BL}$ ♂ feeding fledgling with unmarked ♀. $\frac{YL}{OR}$ $\frac{FW}{BR}$ ♂

feeding fledgling.

2nd clutch of pair with transect #3 out of incubator 1654 hours

dry T = 36.5°C, wet T = 29°C. To be put back in her nest with

a 1x2" exclosure by 4:00.



with 18
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~~Syler Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft~~

8 July 2nd clutch hatch day 2 weekly, 2 eggs for
BL/FW ²⁰/PK?

	BK 1	RD 2	
BL	2.23	2.21	
BD	2.58	2.41	
BW	2.08	2.34	
WL	7.16	6.52	
TL	0	0	
TAR	6.32	} 13.59	leg twinged lightly
Mif	7.73		
hakey	4.56	4.56	
wt	3.5	2.5	
fat	some	some	
age	1	1	
molt	longy eye closed —————>		

Heard fledgling at furthest E territory.

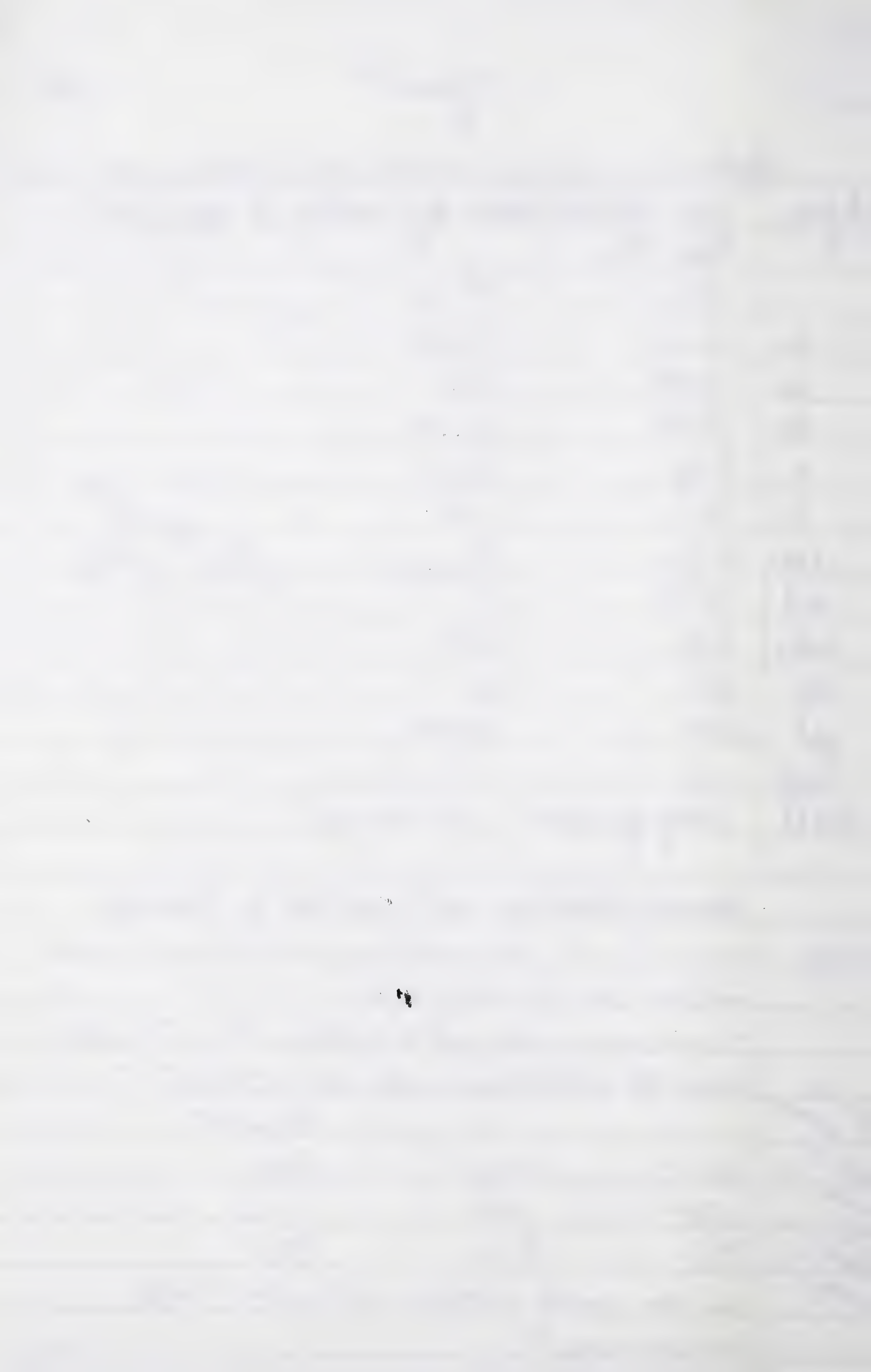
9 July At Transfer #7 saw parents carrying food and chipping, chicks must have survived early fledgling.

3 warbler eggs of pair just E of transfer #7, ♂ is banded but can't tell what, this pair was part of transfer #5

Full up enclosure
left 3
chick
555
for transfer inc
on Saturday

	1	2	3 (rob bird?)
left 3 C	20.14	20.31	15.26
chick W	15.09	15.61	15.33
for transfer inc	right	right	right

Saw them copulate yesterday. Will switch to pair that had transfer #1



Smith, J

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Journal

199

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co. (alt 6300 ft)

9 July

Transfer #12 3 warm eggs, flushed ♀, put up w/ clover

1

2

3

L

21.11

19.72

20.56

W

15.14

14.78

15.14

inc

light

light

light

 in incubator at 1230 hours
 dry T = 36.5°C
 wet T = 28.5
per keys for 3rd ~~set~~ clutch

Bandy transfer #10

left leg 1

right 2

Budno

77-96062/x R⁰/R⁰77-96063/x R⁰/R⁰

BL

4.72

4.85

BD

3.70

3.81

BW

3.28

3.97

WL

31.23

26.60

TL

10.08

5.15

T_{RE}

18.98

18.01

M_L

18.19

17.60

halby

12.47

12.40

just

some

some

wt

14.50 gms

13.50 gms

age

7

+6

molt

3rd P $\frac{2.28}{19.36}$, $\frac{0.89}{6.72}$ tail $\frac{1.10}{14.68}$, $\frac{0}{3.61}$

Round

3.02

4.28

yellow cast to feet

accompagnement

with J
1990

Ground

200

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

Banding transfer #11

	Left 1	Right 2	3 (batz) (clabro)
Bands	77-96064H RD /RD	65/4 RD /RD	66/4 ^{WH} /WH
BC	4.02	4.33	3.74
BD	3.55	3.54	3.40
SW	3.11	3.37	3.46
WL	27.30	31.43	17.65
TL	5.52	7.78	0
TAR	17.33	} 35.18	13.01
Mid	18.66		13.96
Wall	11.97	12.24	9.63
Foot	Much	some	some
wt	16.0 gms	17.50 gms	11.5 gms
age	6	7	4
moft	3rd 10 ^{15.77} , $\frac{0}{2.98}$	$\frac{4.16}{18.11}$ 10 ^{5.00}	$\frac{0}{3.36}$
Round	4.25	3.92	3.74

Transfer #12 out of incubator 1257 hours dry T = 37.0°C

wet T = 28.0°C, into styrofoam T = 28.0°C

New Sagehen phone # 916-582-0537

Big Creek Reserve, San Lucas, Monterey Co, Calif 400 ft

Eggs out of styrofoam T = 28.0°C at 2006 hours

into incubator dry T = 99°F, and wet T = 84°F

Nest eaten so no tagplot

14 July Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

Collected 77-96045^K of tagplot #4. Seemed to prey still hanging down in the willows. Found end west of



int 19
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Journal

201

~~Seeger Creek field sta.~~ 3 mi. NW Hobart Mills, Nevada Co., Calif. 6300ft

14 July

OR/FW $\frac{1}{4}$ RD ♂, flushed ♀ off of eggs did not approve nest.

15 July

OR/FW $\frac{1}{4}$ RD is feeding transplant fledgling 40 days E of 1st nest. Transplant #11 had only a tarsus with 2 red bands left in it. Parents agitated. ~~Transp~~ No sign of possible fledgling. Transp #10 nest empty, parents agitated chirping in the area, did not see them carrying food or chirping. Second nest of BL/FW PK/RD is empty except for one unhatched egg.

2nd nest of OR/FW $\frac{1}{4}$ RD ♂ + unbanded ♀, did not flush ♀ but eggs seen were labeled 2

	1	2	3
L	19.59	19.81	19.66
W	15.57	15.95	15.73

put up 1x2" x 48" enclosure with Aviany coop top. Started to rain, let ♀ sit on 3 dominos put eggs into incubator by F - 37°C, nest = 30°C. Time is 1700 hours

3rd nest of pair in between RD/FW + BL/FW at east end of study site. put up 2x4x48" enclosure with no lid, flushed ♀. She also has 3 active fledgling in the area. Time = 1700 hours labeled 1

	1	2	3	4
L	18.97	18.31	18.81	19.08
W	15.50	15.07	15.46	15.16

Out of incubator 2000 hrs, power outage back to nests switched clutches (checked labels) went to OR/FW $\frac{1}{4}$ RD

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Journal

202

~~Seiche Creek Field Station, 34.1 NW Horat Mills, Nevada Co. Calif. 63090~~

17 July Banding nerlleys (her own) at pair source of transfer #3.

	1	2	3
SL	5.19	5.18	4.83
BP	3.66	3.72	3.87
BW	3.85	4.17	3.77
WL	32.88	34.66	35.07
TL	5.88	8.67	8.22
Tail	19.88	18.29	19.37
Mittal	20.65	19.51	19.43
helly	12.80	11.97	12.09
fat	much	much	
age	8	8	8
wt	18.5	17.5	19.5
nest	$\frac{2.57}{19.26}$ 3rd, $\frac{0}{4.45}$	$\frac{5.20}{21.56}$ 3rd, $\frac{0.43}{5.93}$	$\frac{2.54}{21.67}$ 3rd, $\frac{0}{5.71}$
Round	4.63	5.99	5.37
Radio	77-96101 6R/4	77-96102 6R/4	77-96103 6R/6R

16 July Eggs back in incubator, flushed ♀'s off will return there at 1800 hrs. T = 1056 hours now
dry T = 37°C, wet T = 29°C.



with, J
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Journal

203

~~Sagehen Creek Field Station 3 mi NW Hobart Mills, Nevada Co, Calif. 6350 ft elev.~~

26 July Nest E of BL/BL FW/BL with 2x4" enclosure, with within population transfer. 3 unhatched eggs + one possible conbird or really fat Song Sparrow chick Banded 1431-14523

BL	4.09	Hallux	11.34
BD	3.5	fat	some
BW	3.38	ge	5
WL	29.37	wt	17.0gms
TL	1.02	molt	$\frac{0}{11.01} 1^\circ$
TAR	18.13		
Mid	18.13		

Caught female at this nest OR/FW GR/42 Bando. 77-96104

BL	8.63	Hallux	13.84
BD	5.72	fat	slt
BW	4.24	age	ad
WL	59.55	wt	20.0gms
TL	60.13 worn	molt	no
TAR	18.99	Round	8.44
Mid	18.23		

2 chicks and 2 unhatched eggs at w/in pop transfer just after (E) of RD/FW ad w of BL/FW. This nest has young of East most pair SP/FW

BL	left leg	right leg
BD	2.84	2.26
BW	2.80	2.55
WL	2.80	2.10
WL	7.55	6.00
TL	0	0
TAR	15.41	5.43
Mid		6.80
Ht	4.94	4.26
fat	slt	slt
wt	4g	2g
molt	downy	downy

Age 2

1

with, g
1990

Journal

204

Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., Calif., 6300 ft

26 July Caught ♀ at this nest ^{wh/fw} ^{yl/bk} band no. 77-96105

BL 9.25

Hal 15.30

↳ measured nestling on page 203

BD 6.08

fat set

BW 5.13

age ad

WL 61.90

wt 20.0g

TL 63.59

molt no

Tar 19.33

Round 9.94

Mid 19.76

Earlier nest pair ♂ ^{OR/fw} ^{yl/ro}, nest has 2 eggs + 2 chicks

BL 3.62

^{left}
3.59

BD 2.96

3.58

BW 3.33

3.97

WL 12.29

19.65

TL 0.0

0.70

Tar 9.74

12.94

Mid 13.49

16.11

Hal 8.20

9.08

fat some

much

wt 8.5g

12.5g

age 3

4

molt 3.01° 2.50

7.721°

Round 3.87

—

29 July Banded nestling at ^{OR/fw} ^{yl/ro} forgot calipers, so will return next day to measure. Broke leg of 3 day old nestling, tried to fold it up and stick it into my pocket - ~~ATG~~! Banded it 77-96106



uth, j

1990

Journal

205

~~Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., Calif. 6350 ft~~

29 July Nestling of wh/fw at nest of st/fw, now only one nestling.

Nestling with broken leg is gone.

Band no. 77-96107 wh

BL 4.99

BA 3.66

BW 3.65

WL 31.95

TL 7.34

Tm 18.11

Mid 19.14

Hal 12.91

fat much

wt 17.0 gms

molt ²/20.23 3rd 10, 0.30/5.30 tail

age 7

Round 4.93

Band no. st/fw's nestling at wh/fw nest.

no color/seen, too young for notes

left leg has color

Band no. OR OR

77-96108 OR

BL 3.29

3.96

BA 3.27

3.14

BW 2.99

3.72

WL 10.44

17.03

TL 0

0

Tm 10.14

13.24

Mid 13.44

16.57

Hal 7.63

9.15

fat some

some

age 4

5

wt 8.0

11.5

molt 9.94 10, 0 tail

9/4.50 10, tail 0

Round 3.73

4.38

Smith, J.
1990

206

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif
6800 ft

9 Aug Caught mate of BYFW ^{PK/RD} ♂ and laid 3rd clutch

DL 9.29

BN 5.15

BW 4.45

WL 57.71

TL 62.15

Tan 19.04

Mid 17.79

Hal 14.29

feet set

wt -

age ad

Round 5.54

molt none, feathers out on skull

^{BL} 77-96109/~~PK~~ ^{GR} PKOR

2 young one unhatched egg

BL 4.11

BN 3.62

BW 3.52

WL 28.23

TL 3.42

Tan 16.67

Mid 18.53

Hal 11.48

feet some

age 6

wt -

4.55

3.66

~~3.99~~ 3.62

34.85

8.79

19.65

18.62

11.47

much

7

molt

^{1.82} 15.72 ^{0.36} 2.51 tail

Round 3.77

^{4.22} 21.91 ^{0.65} 6.29 tail

6.45

Banded 77-9110 BL

77-96111 BL

J. I. Smith

Journal

1991

Calif: Big Creek Reserve, Monterey Co.

Sagehen Creek Field Station, Nevada Co.

with, 9
1991

Journal

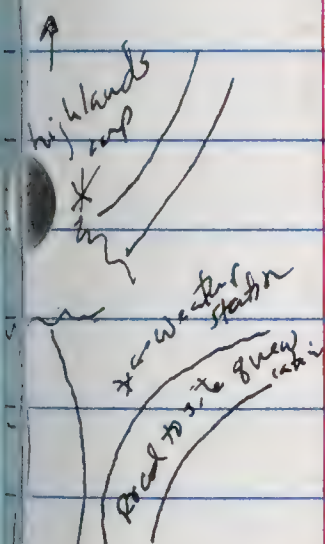
207

Big Creek Reserve, San Lucia, Monterey Co., California, 400 ft. elev

9 April

Arrived last night at 11 pm left Berkeley after setting up a fingerprint plot at $\pm 7^{30}$ pm. Slept in late this morning $\pm 8^{30}$ hrs. Met Feynman at the lab. He said he had left a tractor up at the highlands camp so I offered to drive him up there. We spent the morning driving the roads that goes S from the highlands camp. Canoga Trail is heard is found right at the boundary with the Packard property it goes off E down slope then the chapparal and then rises again. Feynman says it goes to a large waterfall. The weather station is on the road that heads N just 20 yds ^{N of} trailhead for Canoga. If you take the road beyond the reserve onto the Packard property you go thru a thick grove of Redwoods - there is a strong spring at a bulldozed area for retracts in the 1960's. Beyond that you come to a clearing with an old well which is called Franchman's cobi Feynman said an old Portuguese man used to live of there. Lots of flies + hot in the summer. Down the road to the weather station if you continue you deal out with side of new research cabin. Feynman says it will be an open screened-in cabin for summer archeological workers. Lots of Pig wallows.

Left Feynman at highlands camp at 1330 after a lunch of quesadillas at his place. Traveled along the W road to Packard boy. Heard a few sparrows but nothing serious yet, seems very dry!



* trailhead

uphill
- Packard prop
no trap setting

ith, J

1991

Journal

200

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 400ft elev

19 April

I arrived last night about 9³⁰pm. It was cold and foggy. moon is crescent. Seas are very calm today in comparison to last weeks Hurtery NWers. Last week there were harbor seals hauled up on the beach. Today there is only one pup - no sign of any adults I'm a little concerned for its safety. This weekend is the Laguna Seca motorcycle race - terribly noisy and lots of fast bikes. Today Feyner + I went to Gorda to see the Elephant seals. There must have been 100 hauled up on the beach. The big ♂'s were mostly bighy in the shallow surf while the females vocated like so many hot dogs on the beach. Gorda is about 17 miles S of the reserve along highway 1. Down to the seals is via a trail across from the BP gas station / Big Sur Jade Co. At that pt there is a wide pull over area and the seals line the beach 400ft below. You can get right down to the beach and touch the seals! It smells like a farm and they are quite boisterous. Loud low ~~cl~~ barking noises.

In Pacific Vally there is a nice restaurant. Feyner says the ~~apple pie~~ blueberry pie is great + they have excellent pancakes.

Three sea otters are visible in the cove at Big Creek. Brant's Cormorants on the rocks. It was cold all day today until 3pm then it got cold and windy at 5pm. Very low tide this morning. No whales yet this year.



2, J
1991

Journal

209

Big Creek Reserve, San N. Lucia, Monterey Co., Calif. 4000 ft elev

19 April

Notes on last week's walks. Took a hike to Boranda Camp. Very pretty & steep hike thru Redwood Canyon, grassland & oak woodland. Took 2 - 2 1/2 hours of leisurely pace to arrive at Boranda a grassy nook surrounded by oaks and a steep canyon. Not too spectacular and seems claustrophobic to me, but I bet the stars at night are spectacular. especially in August! To get up to Boranda I took the Easterly trail of the Interpretive trail (Feyner says the W side is less steep) at about marker 127 there is a sign indicating a branching off to Boranda. At this pt there is a superb outcrop and it is the site of the mountain lion kill from last summer. This pt marks the end of most of the steep part of the journey the rest of the trail is thru puppy + lupine - littered grasslands. Campsite has cement grills + picnic tables, no latrine or water. Leading down slope + NE out of Boranda is the trail which will lead to the first spring - ~100 - 150 m out of camp there is a sign pt - is south, but the biggest trail continues on E. The trail south is the correct trail back to camp. The easterly trail takes you to a deep Redwood canyon with a fresh running spring; all along this trail an orange sign indicating an ecological study area. The right trail is only 1 meter wide + marked with blue ribbon. At the bottom of the canyon is the remains of an old house (a fireplace + picnic table) just across the stream and up slope 25 m is the last spring (~85°F). I left station at 11:00 hrs

with, J
1991

Journal

210

Big Leaf River, San Lucia, Monterey Co., Calif. 400 ft elev.

19 April

arrived Boronda at 1400 hrs and saw w/ one bear in the hot spring, was out on the camp road at 1600 hrs. Met Faguer (waiting for me) and had dinner together.

On the 11th of April (my 30th birthday) I took the trail to Cangas Falls. The trail head is 1 mi S (along the road) from the highlands camp. Just at the border of the Reserve and the Packard property. The trail is steep and takes ~ 35-40 minutes at a leisurely pace - to get to the falls. If you take the upstream trail it is about 20 minutes (15 minutes maybe). The falls are spectacular. A four story drop into an azure pool and then a 12 ft drop into another pool. Very odd. Upstream the view is only on the river and the canyon - very nice rushing water but no falls. At the base of the trail there is a couple trenches + I think there is a grate. Very little area for Tents, but lots of great pools for diving. A belted Kingfisher (?) has staked out the area. The best view of the falls is from the opposite side of the creek from the trail. Climb up on the rocks and sit in the watching the Big Leaf people truly spectacular view and spray from the falls. The upward journey is hard and takes ~ 1 hour ~~approximately~~ I left the falls at 1500 hrs, took the trail to the upstream and was back out at 1630 (a little winded).

Still not much sparrow activity.

ith, g

1991

Journal

211

Big Creek Reserve, San Lucia, Monterey Co., Calif.

20 April

Rained all night. Very wet and windy.

About 2pm this afternoon the fog turned off along the coast but not inland. I walked the west side of the interpretative trail. About a 45 minute walk along the Interpretative trail from the station rdg is a beautiful westerly overlook to the Pacific. A nice place for a picnic. This comes at marker I-14 along the trail. Further down the trail at I-18(?) is a branch to Lower Dolan Ridge. This is about a 20-25 minute walk up a ridge to overlook the ocean and highway 1. Lots of grassy hillsides and wildflowers, *Baccharis* and poison oak. Back along this trail to finish the Interpretative trail you wander down into a deep dark Redwood Canyon with small creek. Very quiet. Took the Dairy Canyon trail for about 20 minutes - not very exciting just another deep Redwood Canyon. From interpretative marker 21 to 26 you climb back up the canyon steeply. After #27 but before 28 you get the Boronda Camp Trail. With all these extra side trips the 5Km Interpretative trail took me almost 4 hours at a leisurely pace to return to the trail. Very cold, wet + windy all day - very big tide. The seal pup that was on the beach last night was still there when I returned tonight at 1930 but it soon went back to the water only to return to the beach ~20 minutes later -- seems all quite normal.

with, J
1991

Reserve Journal

1st
Nestlings!

212

Big Creek Reserve, 5mi N Lucia, Monterey Co., Calif 94057.

14 May Found nest of pair near Feynne's latrine. 3-2 day old young. Put up 'x2' enclosure - both adults would go thru.

	Red left 77-96115	Blk left	Red right 77-96114
BL	3.06	2.84	3.08
BD	2.64	2.41	2.79
BLW	2.12	2.63	9.21
WL	2.12 10.12	9.12	0
TL	0	0	0
Tarsus	8.25	8.17	8.94
Mid toe	11.25	10.10	9.82
Hallux	6.27	4.93(?)	6.47
wt	5g	4g	5g
Fat	—	—	— not taken
Egg	2	2	2

Found nest of pair N and down slope from storage water pipe near latrine. Put hardware cloth and plastic net with 1" holes - ♀ deserted. Had only 3 eggs, I'm not sure she had begun incubation.

15 May Both parents were feeding young thru enclosure this morning

Th, J

1991

Journal

213

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft. elev

16 May Banding Parents at Feynne's latrine, will take blood samples. The young will be banded on Saturday the 18th

FW S	77-96112	77-96113
Band color,	BL FW BB BK OR BK	BL FW BL BL
BL	8.82	8.43
BD	5.81	5.28
BW	5.26	5.05
WL	62.64	58.61
TL	64.49	60.12
Tar	19.16	18.83
midleg	16.13	17.62
hedge	14.00	14.99
fat	slt	some
sex	Bad	♀ brood patch
wt	21.5g	18.0
Random	7.26	7.71
molt	no	no
Blood sample	.4 ml Buffer to .100 Blood	

Smith, J
1991

Journal

214

Big Creek Reserve, San Nicolas, Monterey Co. Calif. 400ft elev.

16 May

77-96115
Red left

Blk left

77-96114
Red Right

BL

3.62

3.15

3.40

BN

3.05

2.93

3.06

BLW

2.72

3.40

3.59

WL

14.79

14.72

15.0

TL

0

0

0

Tar

13.71

0

14.51

Wider

14.31

25.43

13.19

Wt

10g

8g

12g 8.38

Fat

much

much

much

Age

4

4

4

10g

no lt

1st 10 5.23

0
4.52

10 3.64

There are the gang of 77-96112 + 77-96113

17 May

0949 hrs nest observation it is tremendously windy ~25-30 mph! Cold ~50°F and Sunny not much else to do so I thought I watch. Flushed adult off 3 begging chicks at 0900 hrs.

1001 adult left nest 1028 ♀ returns w/ food on leaves at 1029, 1030 ♀ in adult 1032 ♀ in with full bill what is in the bill is black. stopped obs at 1049

with 1g

1991

Journal

215

Big Creek Reserve, 5 mi N Lucia, Monterey Co, Calif 700ft

18 May

leg color	Red left	Blk left	Red right
Band no	77-96115		77-96114
Band color	FW BL	FW BL	FW BL
BL	3.79		3.58
BD	2.94		3.02
BW	2.67		3.40
WL	16.51		17.04
TL	0		0
Tar	0		0
Midtar	28.52		28.29
Heel	9.40		9.56
Wt	8.5g		9.0g
fat	slt		slt
Age	6 days		6
band	1.62		2.09
molt	3rd 1° 7.73		7.97
blood sample	2ml buffer 50ul blood		

Chuck is missing!

He was there yesterday.

Adults were feeding - yesterday saw both in vicinity of nest it was known well + cold for 2 days now.

23 May

All young gone at ^{BL}FW nest. ♀ ^{BL}FW ^{BY}BL observed building new nest * 26m up slope (E) from the 1st nest.

Eggs of ♀ who deserted 6/7 of plastic mesh at Ferguson woodpile

L	19.29	18.71	18.82	} 1st clutch
W	14.74	15.74	14.72	

with 17
1991

Journal

216

Big Creek Reserve, San N. Lucia, Monterey Co., Calif 400 ft. elev
25 May 3 eggs of ♀ on research site with new exclosure
eggs were incubated T ~ 99°F dry and 87°F wet 3rd
in 36 hours

	1	2	3
L	19.49	19.66	18.66
W	15.98	15.32	14.07

2 eggs heavy inc, one in wedder

← newly hatched
1 juv at nest
was eating juv.
pers. from Feynman.

30 May ~~28~~ May Sagehen Creek Field Sta. San N. Lucia Hobart Mills, Nevada Co., Calif

Saw only 2 ♀'s out of 20 with nest building material
The others are not doing nests.

5 June

Big Creek Reserve, San N. Lucia, Monterey Co., Calif 400 ft

Arrived last night with Jeff Stobough (his 1st trip). We
arrived about ~~10~~ 2230 hrs. Played with Bernie's camera
in the trailer. Roll #1, Roll #2 was taken during the
afternoon at the nest F=3, Speed=125 for all 27 frames.

Tried to put up exclosure with hardware cloth bottom but female would
not accept w/ 30 min. I took it all away - she went
back and at 1800 hrs I put up the old standard 1" x 2"
exclosure. I did not wait for her to return. Blue banded
pewee at Feynman's lost 2nd nest. She is building a new
one on the E side of the Road upslope from the last.

Set the camera up at a nest in Feynman's backyard
near tool shed. 3 ~ 2 day old young.

R, J

1991

Journal

217

6 June

Big Creek Reserve, 5 mi N. Lucia, Monterey Co., Calif. 400ft elev.

3 odd dead chicks at the camera nest at 0700hrs
2 of the chicks were bloody - perhaps the adults were
pecking them to rouse them. Both adults evident, ready
and focused on the nest. It would appear that the ♀
would not brood the chicks with the red light.

The camera took no shots b/c the duck tape came loose
over the shutter. Picked up and measured the chicks.

Found nest of pair just south of the tractor in Feynman's
backyard, did not look in.

Tried to set up exclosure at near latrine birds but
♀ would not accept the plastic flashing! Her eggs
are ready to hatch.

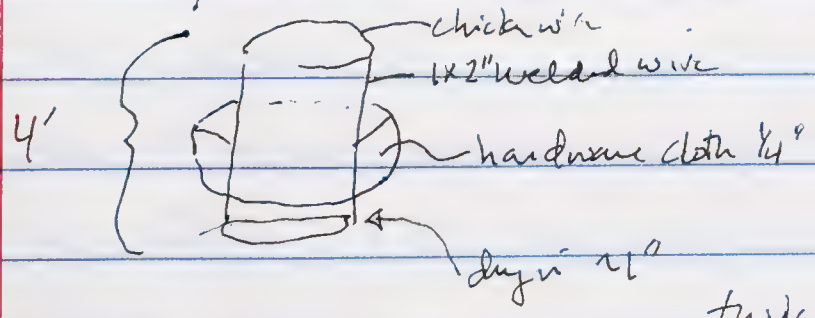
Saw ♀ near truck ferns w/ pup carrying nearby
material. Jeff + I thought we saw the ♀ put east
of her with food or fecal pellet.

Found nest of ~~some~~ California Thrasher + Red-tail Hawk
(2 juveniles in nest with long legs).

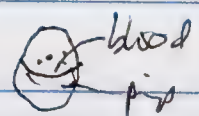
7 June

We searched the rest of the study area to the research
facility for a pair feeding young but could not find any. At my
favorite bowl there were 7 singing males but only 2 females.

At Feynman's house we set up an exclosure. At the edge of the



hardware cloth we put 9"
metal flashing. ♀ would not
accept. She hit the flashing
twice. We heard it did not see.

Her eggs may have been damaged in incubator. I noticed one had
popped quite a bit and it was bloody in a strip 



Smith, J

1991

Journal

218

Seaghen Creek Field Station, 3 mi NW Hobart Mills Nevada Co. Calif. 6300 ft

12 June

5 eggs of female 2 of no fishy raji near fallen log.

She would not accept the 1x2" exclosure pulgus 617 by

was pushed over full of willow and she likes to approach from the top. Egg 5 is possible cowbird

← cont. id?

1

2

3

4

5

L

20.52

21.16

20.13

20.62

18.45

W

15.22

14.95

14.67

15.22

15.78

INC

med

med

↑ med

med

med

1st nest of FWS 77-96118 PK/PK PK/FW

Incubated one night ~12 hrs

14 June

FWS # 77-96116

↓ Jeff's ♀

Band Combo

Orange

Orange

Green

FW

77-96117

Black

Black

FW

Green

BL 8.55

9.22

BD 5.96

5.86

BW 5.19

4.59

WL 61.53

58.55

TL 67.75

61.73

TAR 18.92

19.42

mid toe 18.87

17.29

hallux 13.7

14.2

fat some

some

sex female; brood patch bloody

female; brood patch

wt 21g.

20g.

Round 10.65

5.99

molt no

tail ~~covert~~

Blood Sample .4ml Buffer to .100 Blood

.4ml to .1ml blood

M, 8

1991

Journal

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co., Calif. 6300ft

14 June

♀ FWS # ~~77-96116~~ 77-96116 eggs marked 0 incubated 12 hrs

	1	2	3	4
1st clutch	21.22	22.75	22.01	21.17
W	15.52	15.06	14.94	15.42
inc	med/hvy	light/med	med	med

FWS # 77-96118 Totalmente Louca ♀

Band Combo Pink/Pink Pink/FW

- BL 9.22
- BD 6.00
- BW 4.91
- WL 59.95
- TL 59.97
- TAR 18.71
- Mid toe 18.12
- hallux 15.23
- fat slight
- sex female; brood patch
- wt 21g
- Round 8.33
- Molt No

Blood Sample .4ml Buffer to .075 ~~to~~ Blood

streamer could
be transferred to
Billie's
Abandonment

Found nest of female on S side of last year's last
berry it is overhanging the water 4 eggs. 1st nest

nest is surrounded
by willows

	1	2	3	4
L	20.90	20.54	20.01	20.20
W	15.71	15.37	16.08	15.79
inc	light/med	light/med	light	med

Sutcliffe
1991

Journal

22

Sagehen Creek Field Sta, 3 mi NW Hobart Hills, Nevada Co., Calif 6305 ft

15 June Fledgling out pair four young. Fledgling and beg fed 2 July

1 2 3 4

leg color	L = red	L wing = red	R = red	R wing = red
BL	2.79	3.64	3.11	3.35
BY	2.94	3.19	2.75	3.09
BW	2.44	2.92	2.64	2.84
WL	10.42	13.20	11.34	13.09
TL	0.0	0.0	0.0	0.0
TAR	9.93	13.16	10.84	12.33
mid	11.46	16.42	12.70	14.58
hal	7.38	9.65	6.75	8.94
fat	much	much	much	much
wt	6.0	9.0	6.5	8.0
age	2 days	2 days	2 days	2 days
molt	3rd primary = 0/1.11	3rd pr = 0/2.21	3rd pr = 0/1.62	3rd pr = 0/2.16
Round	0	0	0	0

♂ of this nest

FWS 77-96120

Bulwark YL/FW BK/OR

BL 9.03

Fat some

BY 5.67

wt

BW 4.96

age adult ♂

WL 64.58

molt 0

TL 66.64

Round 5.39

TAR 20.23

Blood 1 ml + .4 ml buff

mid 20.43

Hal 14.72

alt, J

1991

journal

222

Sycamore Creek Field Sta. 3 mi NW Hobart Hills, Nevada Co., Calif 6300ft

15 June Parents at Squirrel feeder nest. no. thys pg 220

FWS 77-96119

Bandcomb. ~~BL/BL~~ BL/BL FW O/P

BL 9.08

BD 6.19

BW 5.34

WL 66.10

TL 69.97

TAR 19.09

MdL 18.26

Hall 14.39

fat some

wt 21.0g

sex ♂

age adult

molt none

band 8.17

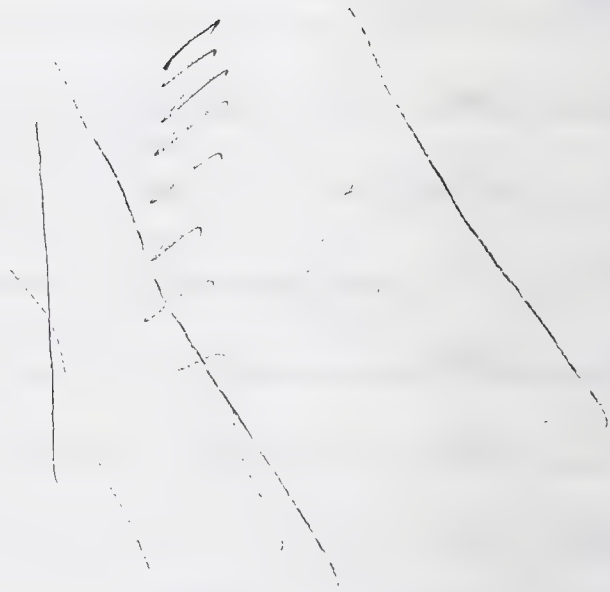
Blood .1 cl in .4 buffer

16 June 5 eggs of ♀ in Ahab's territory put up enclosure

she directed this same egg. was very early in incubation

	1	2	3	4	5
inc	19.05	19.21	18.57	19.27	19.02
W	15.33	15.51	15.11	15.35	14.26
inc	V.L. wt	VL	VL	VL	VL

I believe yesterday evening there were only 4 eggs.



Smith, J

1951

Journal

223

Snake Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

16 June Female at corner territory 4 eggs 1st clutch

~~FW~~ She was banded 77-96121 23 June

Blue	21.22	20.67	21.05	21.43
	15.84	15.58	16.10	15.47
	huy	huy	huy	

~~FW/BL~~ Last years FW/BL First clutch

77-96121 25

	20.83	21.07	21.42	20.21
	15.53	15.60	15.92	15.38
	heavy	heavy	heavy	heavy

19 June Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400ft elev.

Jeff and I arrived last night. Feynner said that 2 chicks in mega-welcome hatched yesterday between 0800 and 1500 hrs.

One egg had fallen out of the nest several days ago was still within the enclosure. Today Jeff observed Blue female still building a nest we watched her build 10 days ago.

Sputnik rejector is on 3 new eggs. Camera female also on 3 new eggs and female in bottom of pump canyon is on 2 eggs.

Sputnik ♀

	1	2	3
L	19.07	19.2	19.15
W	15.12	14.98	15.16
inc	VL	VL	VL

with 1g

1291

Journal

224

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft elev

15 June 2nd Clutch Camera ♀. Eggs marked P. Transplanted to Peanut at Sycamore

	1	2	3
L	20.63	20.67	20.28
W	14.93	14.80	15.01
inc	med	med	med

Canyon Bottom ♀ marked C. Transplanted to Streamside Missions
nest empty 2 July no sign of adults

	1	2
L	18.95	19.34
W	14.66	14.75
inc	Mhug	med/hug

20 June Found nest of female just north of favorite bowl
2 warm eggs flushed her marked 1

	1	2
L	20.16	20.10
W	15.48	15.19
inc	hug	hug

hatched in incubator
during Transplant to
Arnold Shwaygen's nest
were out of nest 2 July - not
possible id.

Babies at major enclosure 2 days old Tractor nest		left BIK	
color	light red		
3L	2.81	2.79	
BD	2.94	2.73	
BW	2.54	2.54	
WL	9.92	9.32	
TL	0	0	
TAR	9.55	8.14	
M.d	12.80	11.24	
Hal	7.19	5.87	
fat	some	some	
age	2	2	
Round	0	0	
molt	3rd 10 % 0.72	0.61	
wt	6.8	5.8	

cut, f

1291

Journal

228

Sagehen Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co. Calif 6355 ft

22 June

very small Peanut's egg

egg

L 12.11

W 10.85

inc huy

Female at the corner, her chicks are banded 23 June

FWS 77-96121

Band Combo ^{Green}/_{Green} ^{FW}/_{Blue}

BL 9.43

BD 5.80

BW 4.82

WL 60.64

TL 60.80

TAR 19.23

Midtoe 18.18

Hallux 14.54

fat some

wt 20.0g

sex female; brood patch

age Adult

molt 0

Round 6.65

Blood 0.4 ml buffer to 0.1 ml blood

Smith, J
1991

Journal

226

Sagehen Creek Field Sta, 3mi NW Hobart Mills, Nevada Co., Calif 6300 ft

22 June 3 Babies, one unhatched egg; Dad is 77-96119 Squirrel nest

	FWS 77-96122		77-96123		77-96124	
Band Combo	FW	Blue	FW	Blue	FW	Blue
BL	5.06		5.32		4.95	
BD	4.19		4.07		4.04	
BW	3.39		3.57		3.85	
WL	41.09		38.93		36.51	
TL	12.91		11.47		9.95	
TAR	21.76		19.29		17.00	
Mid toe	17.32		18.56 17.59		19.78	
hallux	12.82		14.17		12.10	
fat	much		much		lots	
wt	18g.		17g.		16g.	
sex	?		?		?	
age	♂ 9		♂ 9		♂ 9	
molt	3rd primary	19.12; 3.92	14.44	2.25	11.19	1.52
		29.21; 9.37	30.82	9.30	26.11	7.20
round	5.77				3.74	
Blood	0.4ml buffer to 0.1 blood		0.4ml buffer to 0.075 ml blood		0.4ml buffer to 0.1ml blood	

23 June

Transplanted Rj's nest egg marked F to Parents

Lost Jeff's nest near bar - 3 day old chick. Put 2 Cayan marked by chick egg - Condor's tree side nest.

Found nest of B^L/Pw B^L/Bw ♀ 5 eggs. ← 1990's ♀

219

1991

Journal

227

Sagehen Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co, Calif 6300ft

23 June

Arnold Schwartzenegger; 2 Big Creek Transplants, 1 day old marked with 1, hatched in incubator; one 3-4 day old chick of her own.

FWS	Her Own.	Hatched early morning yesterday	Transplants Hatched 3:00 PM yesterday
Band/Combo	(Right leg) Green J15225	Red (Right leg)	Red (left leg)
BL	3.54	2.70	2.42
BD	2.87	2.43	2.12
BW	3.03	2.58	2.12
WL	15.07	7.59	5.94
TL	0.00	0.00	0.00
TAR	13.35	0.00	0.00
Midtoe	13.98	15.56	11.27
Hallux	8.01	5.09	3.83
fat	lots	some	lots
wt	8g.	3g.	1.5g
sex	?	?	?
age	3-4 days.	1 day	1 day
mdt	0.00 2.99 0.00	0.00	0.00
round	0.00	0.00	0.00

~~Read~~ 2 unhatched eggs in nest, which I removed.

This nest had fledged when we arrived July at 1500 hrs

Smith 18

1991

Sagehen Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

23 June total mente loca; one cowbird nestling (22g) in nest, terminated by near field researcher. Nest empty 2 July - parents may be feeding fledglings hard to tell.

FWS	77-96125	77-96126	77-96127	77-96128
		77-9612		
Bird Combo	FW Pink	FW Pink	FW Pink	FW Pink
BL	4.34	3.81	3.27	3.93
BD	3.67	3.20	2.81	3.28
BW	3.91	3.75	3.26	3.67
WL	23.43	20.75	15.43	22.31
TL	2.39	1.28	0.00	2.34
TAR	17.03	15.72	0.00	0.00
Midtoe	17.35	15.17	28.50	33.30
Hallux	10.66	10.67	7.48	9.85
fat	some	some	some	some
wt	12g.	10g.	8g.	13g.
sex	?	?	?	?
age	5 days	5 days	4 days	5 days
molt	3rd Prim. Tail Molt	3rd Prim. Tail	3rd Prim.	3rd Prim. Tail
	0.00 0.00	0.00 0.00	0.00	0.00 0.00
	13.31 0.77	9.85 0.55	5.27	11.24 1.77
round	3.07	1.51	3.91	2.53
blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.075 ml blood

1991

Journal

229

Sagehen Creek Field Sta. 3mi NW Hobart Mills, Nevada Co, Calif 6300 ft

23 June Female at the corner 77-96121; chicks are 4 days old.

	FWS 77-96129	77-96130	77-96131	77-96132
Bird Combo	FW Blue	FW Blue	FW Blue	FW Blue
BL	3.71	3.87	3.52	3.85
BD	3.33	3.25	3.17	3.24
BW	3.02	3.06	2.98	3.02
WL	19.28	20.96	18.02	19.70
TL	0.00	1.97	1.69	0.00
TAR	14.73	16.31	15.88	16.51
Midtæ	15.65	15.7	14.11	14.72
hallux	9.92	10.47	9.83	9.10
fat	some	some	some	some
wt.	10.5g	12g.	10g.	11g.
sex	?	?	?	?
age	4 days	4 days	4 days	4 days
molt	3rd Prim. 0.00	3rd Prim. Tail 0.00 0.00	3rd Prim Tail 0.00 0.00	3rd Prim 0.00
•	8.96	9.77 0.99	7.71 0.78	7.49
round	2.57	1.51	2.19	2.49
blood	0.4ml buffer to 0.09ml blood	0.4ml buffer to 0.1 ml blood	0.4ml buffer to 0.06ml blood	0.4ml buffer to 0.12ml blood

24 June Put Big Creek Spentail (S) eggs in 1590's BL/FW^{BL}/BL ♀'s nest
her 5 eggs are marked with a B. 1191's BL's fledged today
one nest yesterday.

had
not hatched
1 July 1991

were transplanted to
♀ just N of favorite bowl
not disturbed

1991

Journal

230

Sagehen Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

24 June Nest at the three green posts; male has red/orange on left leg; cowbird in nest with 3 chicks, cowbird terminated

Chicks

MOM

FWS	77-96133	77-96134	77-96135	77-96136	77-96137
Band Combo	FW Orange	FW Orange	FW Orange	white/white	Orange/FW
BL	4.72	4.46	4.37	9.11	9
BD	3.52	3.91	3.42	5.87	1431-14612
BW	3.48	3.63	3.40	4.99	RO/or
WL	29.79	31.36	25.85	61.23	FW/or
TL	6.36	6.56	4.14	Tail bent 62.70	Band 1989
TAR	19.50	18.59	18.01	19.99	
Mid toe	20.02	18.28	18.87	19.51	
hallux	13.57	11.81	10.44	13.84	
fat	some	some	some	slight	
wt.	15g.	15g.	12.5g.	18g.	
sex	?	?	?	♀ brood patch	
age	7 days	- 8 days	7 days	♂ brood patch adult	
molt	3rd Prim Tail 2.18 0.00	3rd Prim Tail 3.79 0.00	3rd Prim Tail 1.53 0.00	No	
	17.76 3.57	20.77 3.90	15.41 2.27	No	
round	3.72	4.37	4.08	9.20	
blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.075 blood	0.4ml buffer to 0.1ml blood	0.4ml buffer to 0.09ml blood	

Cowbirds have dark blue eyes.

4 eggs from 1990's by cow BL/BL + 1 cowbird egg

	1	2	3	4	egg
L	19.75	19.72	19.58	20.48	
W	14.70	14.62	15.07	14.54	

med

77-96075

th 18

1991

Journal

231

Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co, Calif 6388 ft

24 Jan 4 heavy eggs from ♀ at Riverside condo we haven't

been able to ret. Placed in pump canyon bottom nest ^{It tipped at} ~~was deserted~~ one chick hatched 25 June.

1st clutch

1

2

3

4

L

20.76

20.18

19.92

20.59

W

15.93

15.78

16.42

~~15.90~~

1st clutch

1 egg from aroid Shwarzgasser - desert egg

L

25.74

W

15.37

Weg

with if
1991

Journal

Big Creek Reserve, San N Lueda, Monterey Co., Calif 400 ft

25 June Tractor nest, mega-exclusion

1st measured p. 229 20 June 2 days old

	Dad	Chicks	
		⁴⁰	⁴¹
FWS	77-96137	77-96138	77-96139
Band Combo	Black / Yellow FW / Green	Red Mark FW Black	FW Black
BL	8.36	4.27	4.53
BD	5.31	3.82	3.51
BW	4.50	3.45	3.41
WL	61.75	30.14	27.72
TL	63.17	5.94	4.76
TAR	19.21	17.81	17.58
midt toe	18.64	19.04	19.48
hallux	13.88	11.11	12.80
fat	slight	some	some
wt.	19 g.	15 g.	14 g.
sex	♂ large cloacal protuberance 5.89 x 6.90	?	?
age	adult	7 days	7 days
molt	No	3rd Prim. Tail 0.00 0.00	3rd Prim. Tail 0.00 0.00
	No	19.44 4.44	16.20 3.52
round	8.13	2.58	4.38
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood

Smith, J.
1991

Journal

233

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft

29 June Latrine - near lab nest 3 chicks. Nest destroyed 1 July

	dad	mom	chicks		
FWs	77-96142	77-96143	Possible Cowbird 77-96144	Possible Cowbird 77-96145	77-96146
Dark color	Pink Orange FW blue	Pink FW	Pink Green FW Green	FW Pink	FW
DL	8.29	8.8 8.41	3.30	3.66	3.24
BD	5.45	5.41	2.70	3.10	3.00
BW	4.40	4.60	3.08	2.50	2.66
WL	61.52	55.56	12.46	13.13	10.20
TL	62.79	59.69	0.00	0.00	0.00
TML	18.80	17.85	11.46	11.02	8.90
ML	18.43	17.43	12.32	13.77	11.90
HM	14.53	13.57	7.14	8.10	7.09
fat	slight	slight	much	much	much
wt	20.0g.	18.0g.	7g.	8g.	6g.
sex	♂ Cloacal protuberance D; 6.75 x 7.31	♀ brood patch	?	?	?
age	adult	adult	3 days	3 days	3 days
molt	No	No	3rd Prim 0.00	3rd Prim 0.00	3rd Prim 0.00
			2.18	2.75	1.61
Roof	7.29	4.65	2.61	1.75	—
Blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.09 ml blood	0.4 ml buffer to 0.09 ml blood	0.4 ml buffer to 0.08 ml blood



Smith 18
1991

234

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif 96007

2 July Peanut's nest; transplant baby; 2nd transplant egg didn't hatch, removed today; peanut's egg did not hatch, also removed

Transplant

FWS 77-96147

Band Comb FW Red/Red

BL 4.02

BD 3.05

BW 2.92

WL 23.95

TL 3.72

TAR 16.19

midtars 16.53

hallux 10.93

fat lots

wt 14g

sex ?

age 6 days

molt 3rd Prim Tail
0.00 0.00

12.94 2.72

round 2.54

blood 0.4ml buffer to
0.12ml blood

This is one of the eggs marked with an F - The same nest pair's 2nd clutch

Ybb observed feeding for 3 hours this afternoon
Saw ♂ + ♀

Found 2nd clutch of or/low br/br, she may have abandoned after ex cloaca put up. I took her 4 eggs into incubator and removed ex closure. Eggs very light.

Smith, J

1991

Journal

235

Sagehen Creek Field Sta. 3 mi NW Hobartville, Nevada Co, Ely 6300ft

2 July

Found nest of female just upstream from ^{SR}BL ^{FW}BL ♀ at the corner. 4 eggs red. Put up exclosure she accepted. male is banded ^{red}FW [?]GR.

Observed ♂ ^{YL}FW ^{BR}GR (farther out nest) feeding fledglings.

4 July

Nest upstream from pebble island nest; 4 eggs; 1 x 2 in. welded

wire exclosure

Mom

FWS 77-96148

Band Combo

~~white~~ ~~white~~
~~white~~ FW

BL 9.38

BD 6.24

BW 4.61

WL 60.75

TL 64.03

TAR 20.50

Midtbe 17.51

hallux 14.44

fat much

wt 21.0g

sex ~~adult~~ ♀; brood patch

age adult

molt No

round 6.50

blood 0.4ml buffer to
0.09ml blood

Smith, J.
1991

Journal

236

Crocker Creek Field Station, 3mi NW Hobart Mills, Nevada Co, Cal 6300ft.

4 July

measuring 3ig Creek eggs for transfer

BL/FW BL/BL ♀ 77-96113

	1	2	3	♀
L	19.16	19.77	19.44	2nd?
W	15.40	15.51	15.30	
inc	hvy	hvy	hvy	

♀ at the X

	1	2	3
L	19.67	19.44	19.25
W	15.50	16.46	15.24 15.39
inc	Light	Light	

♀ at the prong

	1	2	3
L	20.69	21.15	21.10
W	15.30	15.30	15.24
inc	med/hvy	hvy	hvy

♀ with FW/BL ♂ when mellow yellow was last yr

L	20.10	21.04	19.98
W	14.54	15.02	14.67
inc	light/med	med	med

with, g
1991

Journal

237

Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., Calif. 6300 ft

4 July

Sagehen $\frac{0}{7}$ ~~50~~ $\frac{6L}{6R}$ $\frac{0L}{FW}$ 2nd clutch

	1	2	3	4	77
L	21.63	20.35	21.36	20.99	96/116
W	15.52	15.78	15.55	15.77	
inc	med	med	med	med	

Today I opened up one of Spotnude's eggs in BL's nest it was quite added it was 15 days old

Today I will put ~~all~~ ^{all} of Big Creek BL's eggs into Sagehen BL/FW nest (1990 ♀). Checked nest at 1900 hrs, one chick has 1/4 of shell off!

with, g

1991

Journal

238

~~Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft~~

4 July Nest upstream from the corner; 4 eggs; ♂ possibly ~~Red~~ ^{FW} ~~Green~~ ^{Black}

Mom

FWS 77-96149

Band Combo ~~Pink~~ ^{FW} ~~Black~~ ^{Green}

BL 8.51

BD 5.81

BW 4.72

WL 59.40

TL 59.97

TAR 18.29

Midt toe 17.88

hallux 13.94

fat some

wt 20.0g.

age adult •

sex ♀; brood patch

molt No

round 5.93

blood 0.4 ml buffer to
0.11 ml blood

Smith, J
1991

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co, Calif 96355

4 July Peanut's nest; transplant chick

Transplant
FWS 77-96147
Band (Combo) FW Red/Red
BL 4.35
BD 3.42
BW 2.97
WL 33.26
TL 6.53
TAR 18.61
Midt toe 17.20
hallux 11.94
fat lots
wt
sex ?
age 8 days
3rd Prim Tail
molt 2.10 1.02
22.52 6.14
round 6.27

Miss wary abandoned 4 eggs after we put up a
poys - enclosure 2nd clutch marked W

	1	2	3	4
L	19.90	19.39	19.32	19.09
W	15.62	15.86	15.40	15.68
inc	hy	hy	hy	hy

Smith, J
1991

Journal

240

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

4 July

♀ PK/BK PW/GR 77-96149 1st clutch she would not accept Sputnik marked eggs GR

	1	2	3	4
L	20.40	20.58	21.17	20.67
W	15.96	15.91	15.60	15.91
inc	huy	med huy	med	huy

5 July

1st clutch of wh/wh wh/FW 77-96148 ♀ in 1x2" enclosure surrounded with 2' handkerchiefs ← 1' from well wire

marked
♀

	1	2	3	4
L	20.68	20.24	20.63	20.36
W	15.69	15.39	15.32	15.47
inc	huy	huy	huy	huy

This female received 3 Big Creek eggs labeled 1 Jeff's ♀ OR/FW GR/GR got six eggs in 3 x's and 3 G's. She is in a Sputnik.

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400ft

We arrived at Big Creek 2035 hrs at 2200 we noticed that one of the eggs marked W had hatched.

6 July

We delivered 4 W eggs to Sputnik (removing her 2) put up more box. BC's and pump nest had been eaten - the dummy eggs were gone. The ♀ at the X had deserted. Measuring Sputnik's 4th clutch marked 5

	1	2
L	19.37	19.46
W	14.84	15.48
inc	huy	med

Smith, J
1998

241

Journal

Big Creek Reserve, 5 mi N Lucca, Monterey Co., Calif 450 ft

6 July

Today one of GR's eggs hatched + one was unpeeled
one the incubator and + can't find the 4th (very strange)
We will put these eggs in ♀ just north of favorite bowl
She is on her 2nd clutch.

7 July

Put Sycamore eggs marked O in nest of female
at mellow yellow's bowl her mate is banded FW 1/6 R?

Will put GR chick and 1 GR egg in north favorite bowl

BL 2.01

BD 2.05

BW 2.23

WL 5.85

TL 0.00

TAR 0.00

Midtoe 10.55

hallux 4.29 with
claw

fat slight

wt 1.0g

age 1 day

sex ?

molt no

round no

transposed
claw

77-96151

1991

Journal

242

7 July

♀ at X may not have deserted, the eggs were
warmer this morning. Took 2 eggs from female
in favorite bowl and added 4 Sg's eggs marked
J. measuring her 2 eggs marked B (1st clutch?)

(

2

L 19.41

18.25

w 15.13

14. 70

100 ned

Took 2 eggs out of ♀ N of favorite bowl
added 2 GR (1 baby + 1 egg) measuring her
2nd clutch marked N

1

2

3

L 20.47

20.73

21.79

W 15.01

14.38

15.28

inc light

light green

med/light

8 July

Before we left & switched from Spizella's nest the remaining 3 hatched eggs reached W to the ♀ at the 2nd and gave Spizella the 3 Big Creek eggs reached N. Everybody was okay today before we left. One baby still at ♀ N of favorite food. I took with me to Behr the 2 Spizella and 2 Boreal eggs from Big Creek.

10 July

Sagehen Creek Field Station, 3 mi NW of Bart Mills, New York Co, Ely 6300 ft
Unmet Sagehen w/o jets

11 July

Rump eggs still have not hatched all candled heavy. Blue described for Blue Transplant eggs. Shrimperger's note is ~~BK/BK~~ ~~FW/BK~~ ~~BK/BK~~ FW ♂
PK/FW BK/OR

with, g
1991

Journal

243

Sagehen Creek Field Station, 3mi NW Hobart Mills Nevada Co. Calif 6300ft

11 July

Checked FW/OE OE/OE trampled six eggs she still appears to be incubating none of the eggs feel dried and hollow a couple still may be okay. Saw parent or her ♂ carrying food, no one is left in the exclusion

FW/OE OE/OE FW ♀'s male has ? FW/YL BL/OR

Caught ♀ at gauging station territory incubating eggs

FWS 77-96150

bands ~~BL/YL~~ YL/FW BL/OR

SL 8.63

BD 5.84

DW 4.59

WL 62.00

TL 92.7 60.06

TAR 19.52

mid 13.11

humerus 13.24

fat Much

wt 25.0g

age ad ♀ brood patch

molt none

Blood .1ml to .4ml buffer

Recall 9.17

♀ stunned panted in my hand and in shade for quite a while

Smith 19
1991

Journal

244

Sagehen Creek Field Sta, 3mi NW Hobart Mills, Nevada Co, Calif 6300ft

14 July

Measuring eggs for transplant

Miss Wiley's 2nd clutch 4 eggs marked W

	1	2	3	4	transplanted to ♀ at the X at B.J. Creek
L	21.21	20.60	20.46	20.79	
W	15.96	15.65	16.10	15.59	
inc	hvy	hvy	hvy	hvy	original transplant had not hatched

Totalmente Louisa's 2nd clutch marked P

	1	2	3	4	transplanted to ♀ at meadow yellow her original traps O's did not watch
L	20.12	20.54	21.23	20.00	
W	14.72	15.09	15.21	14.46	
inc	med	light/med	med/light	med	

PK FW BK BR 's 2nd clutch marked G

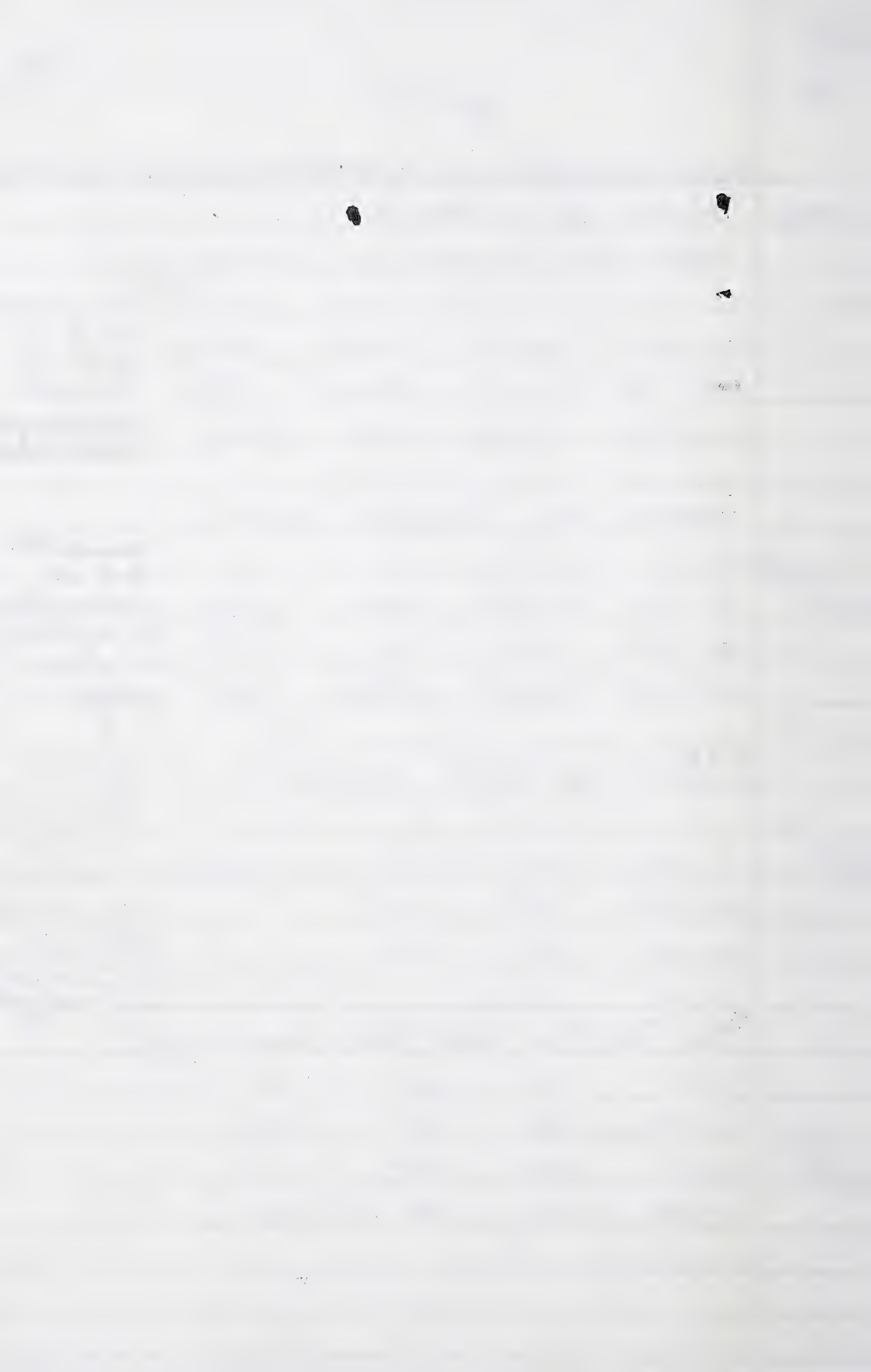
	1	2	3	4	
L	19.68	20.44	19.92	one cracked	
W	15.25	15.87	15.69		
inc	light	light	light		

nest (eggs)
water 17 July!
something crawled
in under hole
under rocks
exclusives

4' high 5' wide
square 1x2"
with bottom 2' of
1/4" hardware cloth
and 1" chicken coop
top.

Y/FW BL/OR 's 1st clutch (♀ died in hand (13 July))

	1	2	3	4	
L	21.47	21.34	21.67	21.26	
W	16.43	16.43	16.63	16.34	
inc	med	med	med	light	



Smith, J
1997

Journal

245

Big Creek Reserve, San Nicolas, Monterey Co., Calif 400ft

14 July Transplant baby measured July 7, still one unhatched egg

FWS 77-96151

Band Combo FW Red/Red

BL 4.41

BD 3.40

BW 3.40

WL 29.48

TL 4.06

TAR 15.73

Midtoe 19.22

hallux 11.92

fat much

wt, ~~14.0g~~ 16.0g

age 8 days

sex ?

molt 3rd Prim Tail
0.00 1.02

17.01 3.17

round 2.43

blood 0.4ml buffy to
0.12ml blood

Smith, J
1991

Journal

246

Big Creek Reserve, Santa Lucia, Monterey Co., Calif 400ft.

14 July Feynner told us that the chicks hatched on Thurs. July 11,
Transplant eggs marked J; all chicks look one day older
than Feynner's estimate.

Band Combo	Red (left leg) 77-96153	77-96155 Black (left leg)	Green (left leg)	77-96154 Green (Right leg)
BL	3.77	3.72	3.17	3.36
BD	3.28	2.87	2.77	2.63
BW	2.81	2.57	2.42	2.49
WL	20.79	18.37	11.39	14.08
TL	1.68	0.00	0.00	0.00
TAR	16.16	14.76	10.30	0.00
Mid toe	7.01	17.41	13.24	28.99
hallux	10.49	10.07	7.42	9.89
fat	much	much	some	much
wt	12.0g	11.5g	5.0g	9.0g
age	3 days	3 days	2 days	3 days
sex	?	?	?	?
molt	3rd Prim Tail 0.00 0.00	3rd Prim 0.00	3rd Prim 0.00	3rd Prim 0.00
	9.51 1.03	8.89	2.51	4.91
round	2.03	2.06	2.60	2.84
blood	not yet	→		

15 July Found 4th nest of B_y/F_w B_y/B_L in Cypress. Gave her 6 R (3)
Transplant eggs
3 marked

L 19.66 19.62 20.63

W 15.86 15.68 16.01

inc med med

20
22
/

Smith, J

1991

Journal

247

Big Creek Reserve, Santa Lucia, Monterey Co. Calif 400ft.

15 July

Found what I believe to be the 2nd clutch of
♀ ^{OR}/_{FW} ^{RO}/_{OR} 13 whale pt canyon marked OR

	1	2	3
L	19.59	20.35	20.67
W	14.22	14.56	14.84
inc	light	light	med light

gave her canvas fabrics and took her eggs not
sure she would accept enclosure

16 July

Caught ♀ in territory North of favorite band. Sprinter
is incubating her 3 eggs (still not hatched today!) and
she is feeding transplanted baby 77-96151

FWS 77-96152
Bands ^{OR}/_{OR} ^{FW}/_{FW}

BL 8.08

BD 5.28

BW 4.56

WL 57.48

TL 61.82

Tail 19.22

mid 17.33

hallyx 13.81

fat some

wt 18.0g

Round 6.06 no molt

sex ♀ ad

Blood ~~tail~~ to .4ml Buffer may have ETOH in blood

she is in
4'5 year
1x2" enclosure
exclusion

she received
4x/FW 8x/OR's
eggs from
Sagehen. These
may have been
hand-banded

... ..

...

...

Smith J

1991

Journal

243

Big Creek Reserve, San N Lucia, Monterey Co, Calif 900ft.

16 July Nest with Transplant eggs marked J. Previously measured on 14 July. One transplant chick missing, lost during previous night. Lost chick had green on left leg.

Transplant Chicks

FWS	77-96153	77-96154	77-96155	77-96156
Band Combo	FW $\frac{\text{Red}}{\text{Red}}$	FW $\frac{\text{Red}}{\text{Red}}$	FW $\frac{\text{Red}}{\text{Red}}$	$\frac{\text{Black}}{\text{FW}} \frac{\text{Black}}{\text{Yellow}}$
BL	4.24	4.19	4.22	8.60
BD	3.48	3.35	3.49	5.76
BW	3.12	3.13	3.19	4.82
WL	28.95	23.99	27.69	59.34
TL	4.20	2.44	3.94	63.36
TAR	18.41	17.67	0.00	17.42
Mid toe	17.95	17.28	36.55	16.51
hallux	11.77	11.35	12.04	14.11
fat	much	much	much	some
wt.	15.0g	14.0g	15.0g	19.0g
age	6 days	6 days	6 days	adult
sex	?	?	?	♂
molt	3rd Prim Tail 3.30 0.00 0.00 0.00	3rd Prim Tail 0.00 0.00	3rd Prim Tail 0.00 0.00	No
	18.63 3.01	13.92 1.23	18.89 2.62	
round	3.36	2.15	3.75	6.75
blood	0.4ml buffer to 0.1 ml blood	0.4ml buffer to 0.1 ml blood	0.4ml buffer to 0.1 ml blood	0.4ml buffer to ml blood
remarks	Red (left leg)	Green (light leg)	Black (left leg) 2nd Prim has broken sheath	no blood, can't get any veins

18 July checked BL at Cyprus still incubating 3 GR eggs. Spent last 2 newborn chicks at 0730 hrs at one unhatched egg.

Suth. J

1991

Journal

249

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 95062

18 July Checked ~~OK~~/FW ~~OK~~/YR transfer clutch. 3 big babies at 0830 hrs, parents hatching. Jeff did feeding obs last night until 2000 hrs. Observed territory north of favorite bowl with singleton transplant ♀ is OR/BR YL/FW. Transplant (77-96151) fledged yesterday, but remained in the enclosure. Today I believe I hear it begging outside of the enclosure.

Sprink's two babies measured, one upped egg

color Red ft Green (left leg)

BL	1.94	2.14
BD	2.32	1.96
BW	1.58	1.96
WL	6.65	5.70
TL	0	0
TAR	0	0
Mid	13.96	11.69
hul	4.58	4.20
fat	set	slight
wt	2.5g	2.0g
Round	none, no molt	none, no molt
Age	0	0

measuring 3 eggs of ♀ whom I thought had partner nest. she deserted after whacking. Nailed T 2nd clutch?

1	2	3
19.91	19.79	20.26
15.67	15.65	15.19
med	getting	very

Smith of
1991

Journal

250

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada

21 July Arrived Sagehen 18 July. Lots of storms in the afternoon. Found 2nd brood of ♂ ^{BL} ^{OL} ^{FW} ^{HK} measuring today one unhatched egg

PWS	77-96157	77-96158	77-96159
color	FW BL	FW BL	FW BL
BL	3.30	3.75	3.81
BD	3.02	3.34	3.41
BW	2.69	3.21	3.17
WL	14.52	15.18	19.99
TL	0	0	0
PAR	13.48	0	0
mid	13.78	29.08	31.96
tail	8.97	8.82	10.64
fat	some	some	some
wt	8g	10g	11.5g
meat	3rd $\bar{4.36}$, 0	3rd $\bar{7.51}$	$\bar{10.25}$, 0
Round	2.77	1.93	2.54
Blood	yes	yes	yes
ger	4 days	4 days	+4
		lowbird?	combined? NO, 9 Aug 1991 collected

1990's ^{BL}/_{FW} ^{BL}/_{BL} 3rd clutch

	1	2	3	4
C	20.21	20.54	20.34	20.80
W	14.41	15.20	15.25	14.77
me	huy	huy	huy	huy

97-96006

Smith, J
1991

Journal

251

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, Calif 95968

22 July

Measuring 4 eggs of ♀ 2nd clutch

her right leg is banded ^{FW/YL}

from last year. She is in a hardware cloth 2' with chicken coop over that.

	1	2	3	4
L	19.80	19.97	20.10	20.00
W	14.53	14.85	14.56	14.49
inc	too dark			

I am switching this clutch with the 3rd clutch of last year's B/FW ^{B/L/B}

Measuring eggs ^{W/L} ~~FW~~ ^{W/L or FW} ♀ 2nd clutch for transfer.

gl B/L

	1	2	3	4
L	21.30	20.95	21.17	21.08
W	16.17	16.34	16.11	16.51

inc

Bj Creek eggs marked ⁽³⁾B went to this Wdg in 9' circumference 1x2"x4' welded wire with 30" of hardware cloth bottom and array wire top. Bj Creek eggs marked T went to ♀ banded ^{PK/BK} ^{FW/OR} in 12' circumference with welded wire ⁽³⁾ 1x2"x4' and hardware cloth 1/4" bottom chicken coop 1" top. Bj Creek egg marked OR went to ^{PK/PK} ^{FW} Totalmente Luca. She is in a 3' x 1" x 2" tower with hardware cloth all array wire bottoms to the shore and 1x2"x4' to wires

withing

1991

Journal

252

Sagehen Ck Field Station, 3 mi NW Hobart Mills, Nevada Co, CA, 6300 ft

22 July Arnold Schwarzenegger's nest; 2nd brood. Her mate killed last week (♂ ^{Orange} _{FW} ^{Pink} _{Black}). 3 chicks. ♀ BK/BK ^{SK} _{FW}?

FWS

Band Color

BL	2.23	2.20	2.04
BD	2.06	2.63	2.24
BW	2.79	2.20	1.74
WL Feet	7.91	7.13	5.82
TL Feet	0.00	0.00	0.00
Tar	0.00	0.00	0.00
Mid toe	13.97	14.41	11.31
Hallux	4.65	4.43	4.15
fat	some	slight	slight
wt.	2.9g.	2.5g	1.5g.
age	1 ¹ days	1 ¹ days	0 days
sex	?	?	?
molt	No	No	No
round	0.00	0.00	0.00

remarks Green left leg Red left leg Red right leg.
hatched 9:30 AM
this morning

22 July Big Creek Reserve, 5 mi N Lucca, Monterey Co, Cal 900 ft
Arrived with Jeff last night at 1930 hrs. Checked
OR ♀ at bottom of whale pt. One chick just
hatched another had shell cut in 2. The
3rd egg showed no signs of pipping. The 4th egg
was not visible.

with 1 J

1991

Journal

253

22 July Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft
 Spurbird had 2 big chicks, BL ♀ had 2 eggs - Jeff checked, she must have discarded the 3rd. The female at the X abandoned 2 eggs one day from hatching!

23 July Found nest of Tw/Bl ¹/₁₀ on new research site Y 2 day old chicks mate is unbanded

color	Red left	gray left	Blk left	Rd right
BL	2.76	3.11	2.88	3.11
BD	2.42	2.79	2.54	2.56
BW	2.28	2.32	2.33	2.62
WL	8.80	12.04	9.06	10.70
TL	0	0	0	0
TAL	0	0	0	0
Wt	18.58	24.70	20.74	23.65
Ht	6.10	7.27	6.57	7.96
fat	some	some	some	some
wt	5g	7.5g	6g	7g
age	2	2	2	2
Sex				
with	3rd $\frac{0}{0.51}$	3rd $\frac{0}{1.99}$	3rd $\frac{0}{0.72}$	3rd $\frac{0}{1.54}$
Rand	~	1.66	~	~

77-96164

Smith, J
1991

Journal

254

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif. 400 ft

23 July Orange Red FW Green ♀ nest; transplant eggs marked YL; 2 eggs hatched last night around 19:00; one unhatched egg and one egg was discarded by ♀. Unhatched egg pipping at 12:00 today.

Leg Color	Red left leg	Green left leg
WL	7.39	6.48
TL	0.00	0.00
Tar	0.00	0.00
Mid toe	14.53	13.85
hallux	4.80	4.56
BL	2.35	2.40
BD	2.09	2.45
BW	1.94	1.77
fat	slight	slight
wt.	3.0g.	2.5g.
sex	?	?
age	1 day	1 day
	77-96163	77-96162



Smith, J

1991

Journal

255

Big Creek Reserve, 5 mi N Lucia, Monterey Co, Calif 400ft

23 July Sputnik's nest; 2 babies last measured on 18 July 1991;
one unhatched egg. Eggs are from female in territory
north of my favorite bowl.

Leg color Green left leg Red left leg

BL	4.09	4.26
BW	3.19	2.75
BD	2.84	3.24
WL	22.42	21.62
TL	2.61	3.07
Tar	15.91	16.06
Midtoe	16.99	17.88
hallux	9.99	11.66
molt	3rd Prim Tail 0.00 0.00	3rd Prim Tail 0.53 0.00
	10.52 0.86	12.45 2.33
fat	much	lots
wt	13.0g.	13.0g.
age	5 days	5 days
sex	?	?
round	2.19	1.98

24 July Banding + Bleeding Sputnik's babies

1600 hrs

Green leg - 77-96160 + xl - 3rd 1° rt wing is out. This is
Rightly Red - 77-96161 + xl - The only one
all 1°s have broken
sheath

Smith, J.

1991

Journal

256

Big Creek Reserve, Simi N Lucia, Monterey Co. Caly 400 ft

28 July Nest below Whale Point. ♀ ^{Orange} FW ^{Red} Green. 2 transplant babies.

Last measured on 23 July 1991.

FWS	77-96162	77-96163
Band Combo	^{Red} ^{Red} Right leg	^{Red} ^{Red} Right leg
BL	4.09	3.86
BD	3.06	3.44
BW	2.88	2.86
WL	21.25	24.33
TL	2.02	3.52
Tar	16.36	17.36
Mid toe	17.24	16.80
hallux	11.00	11.11
fat	some	some
wt	14.5g.	14.5g
age	6 days	6 days
sex	?	?
molt	3rd Prim Tail 0.00 0.00	3rd Prim Tail 0.00 0.00
	11.14 1.15 2.0	13.17 1.30
round	2.00	3.30
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood
leg color	Green left leg	Red left leg

Smith J

1991

Journal

257

Big Creek Reserve, 5 mi N Lucia, Monterey Co, Calif 400ft

28 July ♂ $\frac{FW}{BL}$ $\frac{Yellow}{Orange}$. 2 dead chicks collected; 1 chick missing. Dead chicks Right leg Red, Left leg black. Primaries had broken sheath on right leg red.

FWS 77-96164

Band Color FW Blue

BL 4.03

BD 2.452.83

BW 2.70

WL 24.05

TL 2.92

Tar 16.34

Mid toe 16.63

hallux 11.39

fat some

wt. 10g.

age 7 days

sex ?

molt 3rd Prim Tail
1.71 0.40

15.14 1.48

round 2.83

blood 0.4 ml buffer to
0.09 ml blood

leg color Green left leg

1st chick of Syzyr clutch hatched in incubator ~2600 hrs
fed it $\frac{4}{5}$'s of a mealworm. 2153 he ate one more
entire mealworm.

M. J

1991

Journal

258

Big Creek Reserve, Santa Lucia, Monterey Co., Calif 900 ft

29 July 0706 feel the single chick in incubator $4/5$,
of a meal worm. One other egg is pipped but
not the 2 others. 0744 $1/2$ of a meal worm fed to chick
killed by strangulation in the incubator ~ 1200 hrs
measured below - not given collector number yet

BC 2.13

BD 2.23

BD 1.78

WL 6.56

TL 0

TAR 0

midleg 13.48

HL 4.44

fat 51+

wt 2g

age 1 day - started in alcohol no hissing ran and

Another of these eggs hatched ~ 1500 hrs.

30 July another egg hatched last night (early morning 30 July).

Guth, J

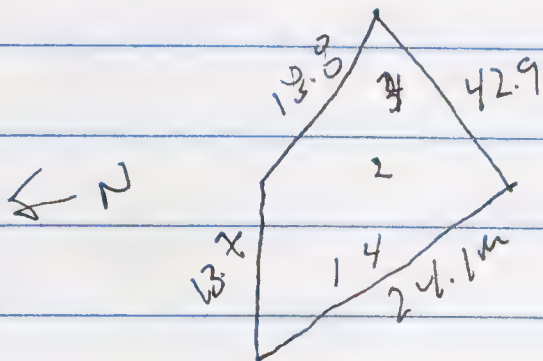
1991

Journal

30 July

Big Creek Reserve, 5mi N Lucia, Monterey Co. Calif 900ft ²⁵⁹
Blues Territory

24.1m x 13.7m x 10.80m x 42.9



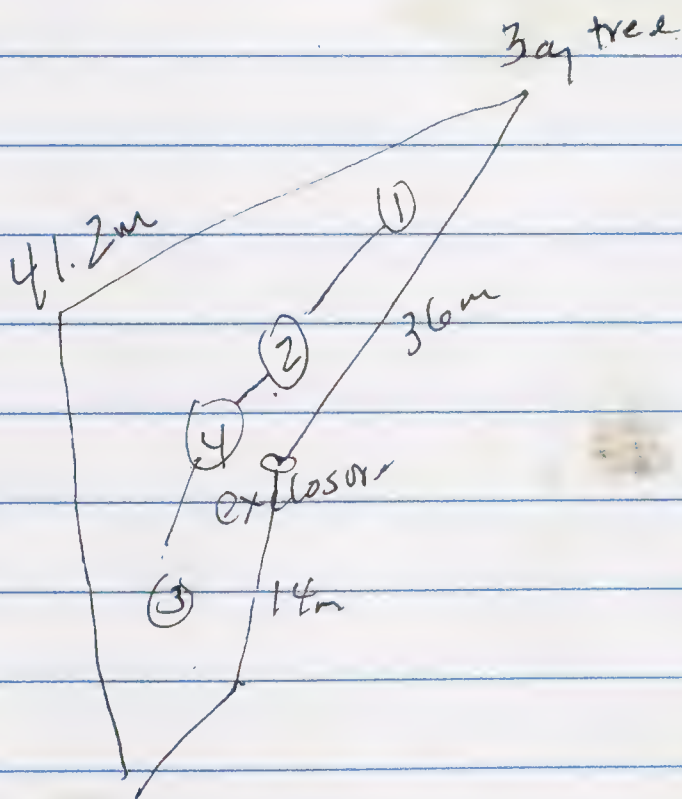
2-3 : 25.2m

2-4 : 15.9

4-1 : 3m

distance to Sputnik's 1st nest 25.4m
But distance to camera is
23.4

Sputnik's

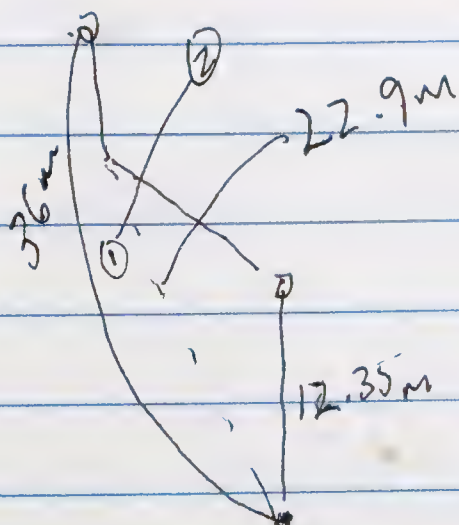


nest 3-4: 10.7m

4-2 : 4.6m

2-1 : 16.88m

huber couple



1-2 : 26.5m

28m to camera - nest pairs
nearest nest

auth, J
1991

Journal

260

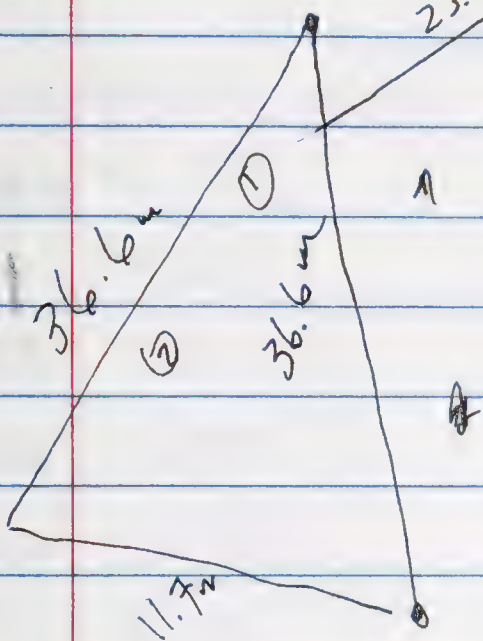
Big Creek Reserve, San Lucia, Monterey Co., Calif 400ft

30 July

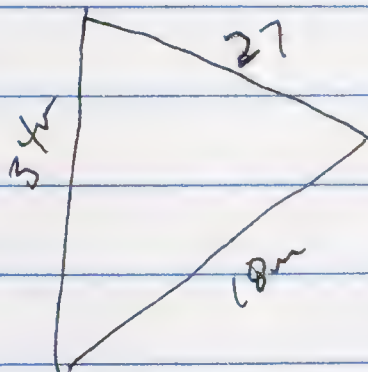
Camera nest

23.4m To 3rd's
3rd nest

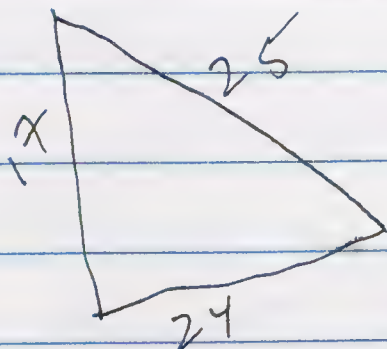
9.7m nest 1 to 2



purp pair



wale pt



19m - nest 1 to 2

Smith, J
1991

Journal

261

Big Creek Reserve, San Nicolas, Monterey Co., Calif 400 ft.

30 July

♀ $\frac{\text{Orange}}{\text{FW}}$ $\frac{\text{Red}}{\text{Green}}$

Transplant Babies

FWS 77-96163

77-96162

Band Color

FW $\frac{\text{Red}}{\text{Red}}$

FW $\frac{\text{Red}}{\text{Red}}$

BL 4.56

4.49

BD 3.16

3.46

BW 2.97

3.01

WL 33.43

29.74

TL 6.03

4.67

Tar 19.32

19.06

Mid toe 17.34

17.41

hallux 12.41

10.95

fat some

much

wt 16.8g

16.5g

age 8 days

8 days

molt 3rd Prim Tail
0.00 0.49

3rd Prim Tail
0.82 0.00

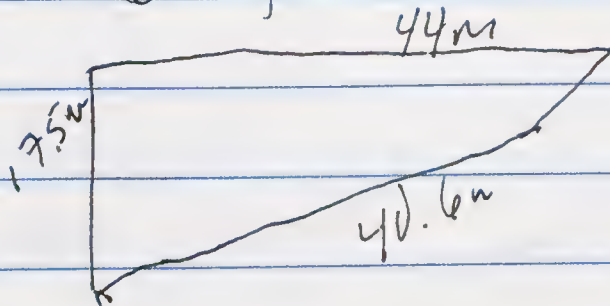
21.43 4.76

19.91 3.12

round 4.62

2.97

Greens Territory -





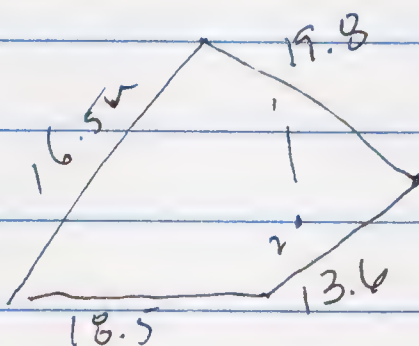
Site 18

1991

Journal

262

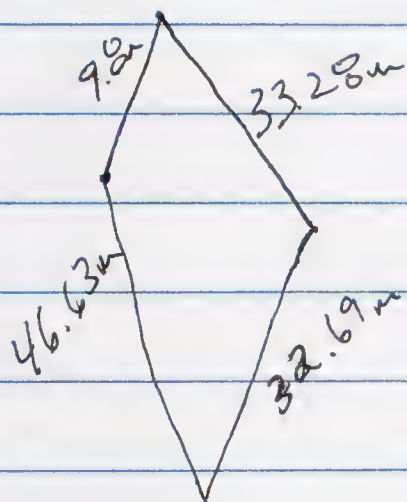
30 July Big Creek Reserve, San Nicola, Monterey Co., Calif 400ft
north of favorite bond



21.5m west 1 to 2

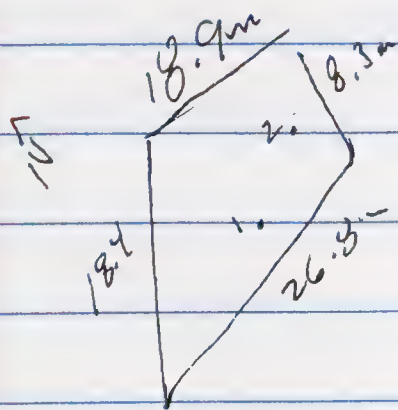
✓
40m - nearest neighbor

Favorite Bond



40m - nearest neighbor

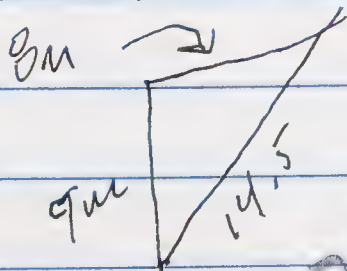
new research facility



FW/BL 01/42

✓ nest 1 to 2 - 17.3m

latrine nest



nest 1 to 2 14m

7796142 ✓

Smith, J

1991

Journal

263

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400ft~~

30 July

measuring Sayler incubator chicks,

color

Red

green

BL

2.48

2.42

BD

2.12

2.32

BW

1.94

1.93

WL

6.43

6.76

TL

0

0

TAD

0

0

mid

13.09

12.63

Hd

4.64

4.62

pat

sit

sit

wt

2.0g

2.5g

Age

1

0

This chick is not
easy to feed

The 4th egg is pipped tonight at 2030hrs.

31 July

4th chick hatched early this morning. I pressure between
2300 last night at 0700 today.

with, 8
1991

Journal

264

Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., Calif 96044
31 July ♀ ^{FW} ^{Pink} ~~FW~~ ^{Green} ^{Black}. Transplant eggs marked T. 2 babies and
2 unhatched eggs.

FWS	77-96165	77-96166
Band Color	FW ^{Orange} / _{Orange}	FW ^{Orange} / _{Orange}
BL	4.26	4.74
BD	3.18	3.20
BW	3.14	3.31
WL	25.10	26.30
TL	3.64	4.14
Tar	17.08	17.91
Midtæ	17.60	16.93
hallux	11.80	10.85
fat	some	much
wt	13.5 g.	15.5 g.
age	6 days	6 days
molt	3rd Prim Tail 0.00 0.00	3rd Prim Tail 0.00 0.00
	14.68 1.79	15.83 2.67
round	3.16	3.54
blood	0.4 ml buffer to 0.08 ml blood	0.4 ml buffer to 0.1 ml blood

with 18

1991

Journal

265

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co., Calif 6300ft

 31 July ♀ 1990 ~~Blue Blue~~ ^{all blue}. 4 eggs marked R? 4 babies

Band Combo FWS FWS Band Combo	FW Yellow	FW Yellow	FW Yellow	FW Yellow
	77-96167	77-96168	77-96169	77-96170
BL	3.88	4.19	3.88	3.79
BD	3.34	3.07	3.33	3.08
BW	3.24	3.02	3.10	2.42
WL	25.51	26.03	25.92	22.36
TL	2.74	4.67	2.85	2.49
Tar	16.64	14.7 ⁹⁷ 70	15.59	16.31
Midtoe	18.02	18.67	19.44	18.09
hallux	11.39	10.93	11.73	10.25
fat	much	much	much	some
wt	15.5g	15.0g	15.5g.	13.0g
age	6 days	6 days	6 days	5 days
molt	3rd Prim Tail 0.00 0.00	3rd Prim Tail 0.00 0.00	3rd Prim. Tail 0.30 0.00	3rd Prim Tail 0.00 0.00
	15.33 1.65	16.01 2.61	14.65 1.84	11.33 1.22
round	1.67	2.88	2.41	2.01
blood	0.4ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4ml buffer to 0.1 ml blood	0.4ml buffer to 0.1 ml blood

Smith, J
1991

Journal

266

Sagehen Creek Field Sta. 3mi NW Hobart Mills, Nevada Co. Calif 6300ft

31 July 1990 Blue's eggs reared by yellow at the ever-mysterious pebble island.

FWS	77-96171	77-96172	77-96173	77-96174
Bird Combo	FW Blue	FW Blue	FW Blue	FW Blue
BL	4.36	4.43	4.45	4.34
BD	3.41	3.44	3.40	3.41
BW	3.29	3.26	3.33	2.97
WL	24.04	28.94	30.92	29.01
TL	3.41	4.97	5.26	4.77
Tar	17.27	18.25	16.52	18.18
Midtbe	17.86	18.42	17.96	17.58
hallux	10.60	11.59	11.22	10.08
fat	much	much	much	much
wt	13.0g.	16.0g.	16.0g.	16.5g
age	6 days	7 days	7 days	7 days
molt	3rd Prim Tail	3rd Prim Tail	3rd Prim Tail	3rd Prim Tail
	0.00 0.00	2.70 0.00	0.00 0.00	1.29 0.00
	12.48 2.06	18.71 3.42	19.59 3.67	18.60 3.04
round	2.54	3.64	2.80	2.87
blood	0.4ml buffer to	0.4ml buffer to	0.4ml buffer to	0.4ml buffer to
	0.1 ml blood	0.085 ml blood	0.1 ml blood	0.1 ml blood

1 Aug Measuring 3rd clutch of wh/fw wh/wh

	1	2	3	4
L	20.89	20.78	21.11	20.69
W	15.79	15.86	15.53	15.45
inc	huy	huy	huy	huy

Saith, J
1991

267

Journal

Sagehen Creek Field Sta, 3mi NW Hobart Mills, Nevada Co, Calif 96044

1 Aug Measuring 3rd clutch of ^{GR/FW} ^{OR} ^{OR}

	1	2	3	4
L	19.94	21.37	20.81	20.53
W	15.79	15.31	15.84	15.82
inc	hvy	hvy cracked	hvy	hvy

1 August ^{2nd} Peanut's nest.

FWS	77-96175	77-96176	77-96177
Band Combo	FW Green	FW Green	FW Green
BL	4.73	4.86	4.58
BD	3.42	3.56	3.47
BW	2.67	2.79	2.95
WL	33.17	33.27	30.12
TL	7.28	9.29	7.56
Tar	18.07	19.28	18.93
Midtoe	16.99	18.57	16.58 15.73
Hallux	12.41	12.20	11.77
fat	some	some	some
wt	14.0g	16.5g	15.0g
age	8 days	8 days	8 days
molt	3rd Prim Tail 8.09 1.10	3rd Prim Tail 5.49 1.37	3rd Prim Tail 4.85 0.80
	22.36 5.57	24.48 7.32	19.64 5.27
round	4.37	5.05	3.65
blood	0.4ml buffer to 0.1 ml blood	0.4ml buffer to 0.09ml blood	0.4ml buffer to 0.11ml blood

Smith, J
1991

Journal

268

Sagehen Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft.

1 Aug caught father of 77-96167-170 + mate of ^{FW} ^{GR} ^{IL} _{OR}

FWS 77-96178

Band color FW/OR BL/IL

BL 8.29

BD 5.65

BW 4.42

WL 64.23

TL 65.06

TAR 19.13

mid 17.64

hal 13.40

fat Some

wt 20.0 g

Round 8.28

molt no

sex ♂

age ad

blood .1 to .4 brown

caught 1990's BL FW ♀ mother of 77-96171-174

FWS 77-96025

WIP 16.10

Band $\frac{BL}{BL}$ $\frac{FW}{BL}$

Hal 13.46

BL 8.73

fat 51%

BD 5.64

wt

BW 4.19

Round 6.56

WL 63.11

molt

TL 62.71

age ad

TAR 20.40

sex ♀ brood patch

blood .1 to .4 - a little low brown 2.08

Smith, J.
1991

Journal

269

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif 96024

1 Aug

caught mate of B_c/B_c F_w/B_c 77-96025

FWS 77-96179

Band F_w W_h
 B_c B_c ~~PLC~~

BL 9.31

BU 6.01

BW 5.47

WL 63.45

TL 65.19

TAR 20.26

md 17.77

Hnd 14.48

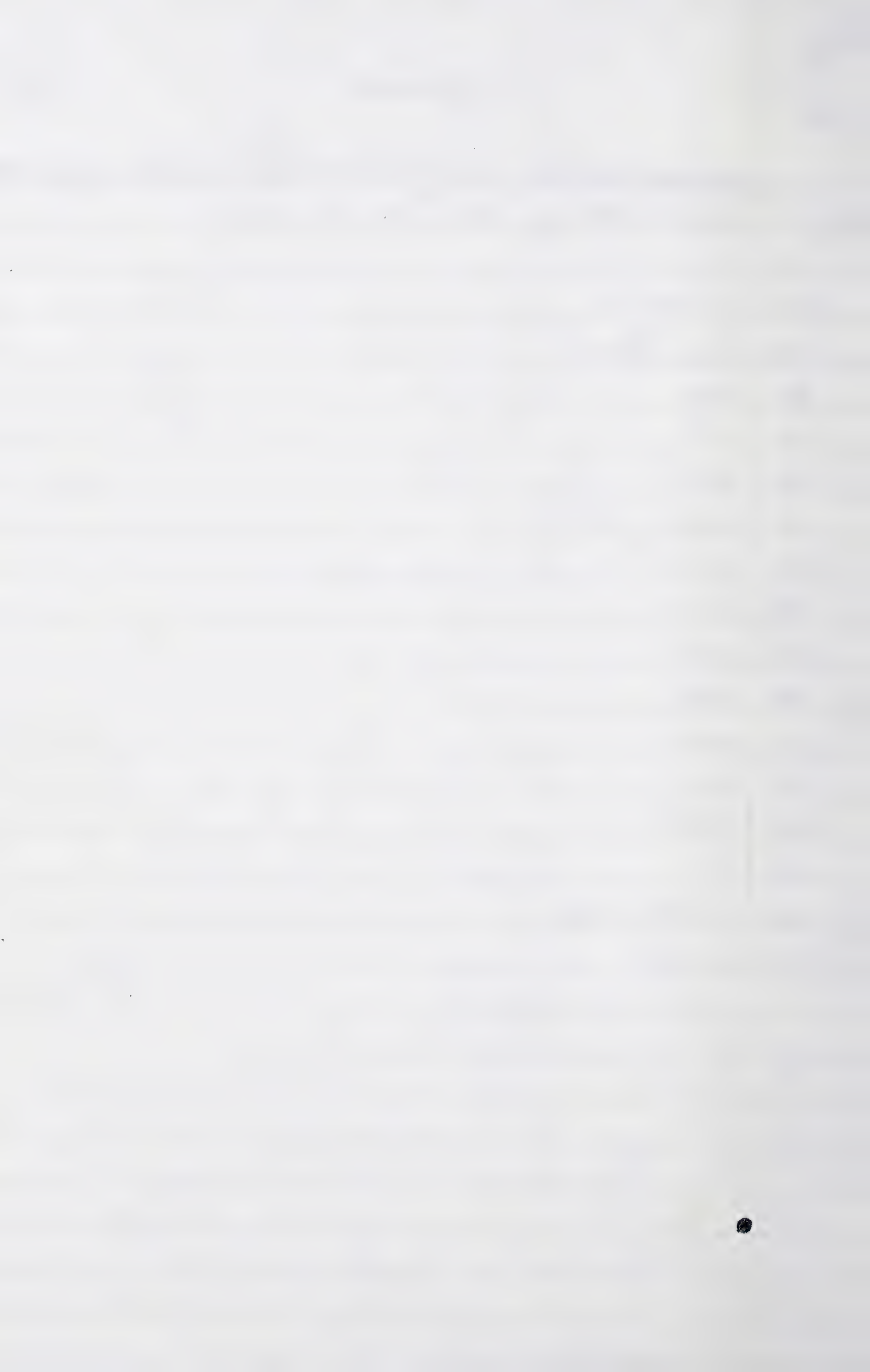
ft some

wt 21.0

Rand 5.30

molt no

blood .1 ml to .4 ml buffer



Smith 19

1991

Journal

275

~~Sagehen Creek Field Sta. 3mi NW Hobart Mills, Nevada Co. Calif 96049~~

2 August ♀ ^{white Or}_{white FW}. 1 baby, hatched in incubator, fed meal worms by hand for a 1/2 day.

BL 2.87

77-96184

BD 2.87

BW 2.43

WL 8.56

TL 0.00

Tar 0.00

Mid toe 17.06

hallux 5.96

fat slight

wt 5g

age 2 days

3rd Prim

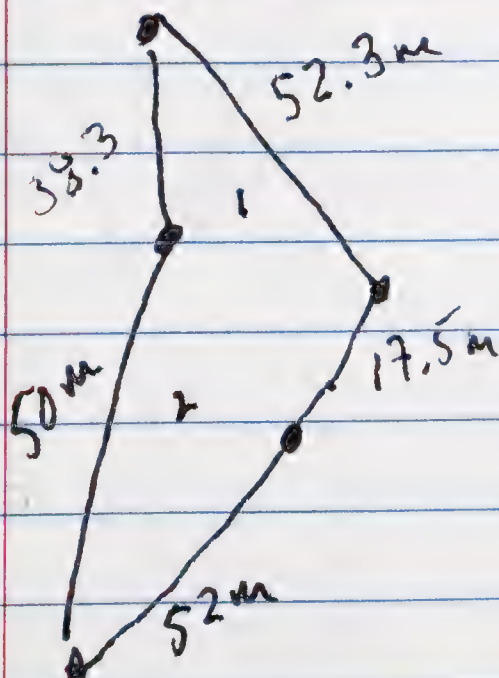
0.00

molt 0.32

round 0.00

Territory measurements of ^{Wh/Wh} α¹ FW + FW Rd/OR
nest 1 to 2 47.6m

nearest neighbor 111m



int 18
1991

Journal

276

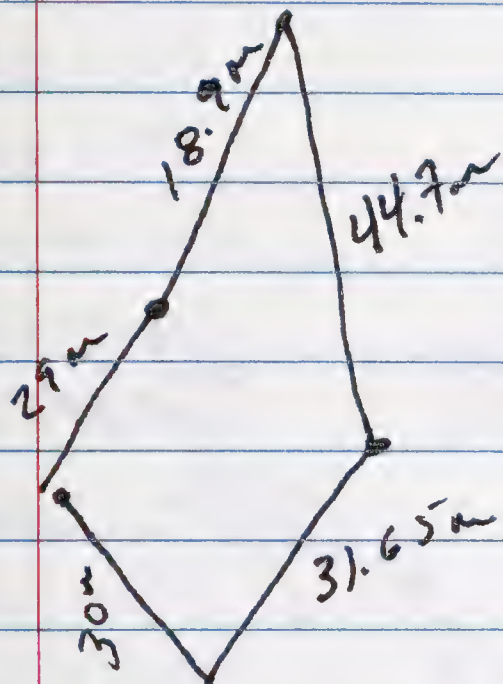
Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif.

2 Aug

Territory of GR/FW BK/PK F : F FW BK/PK

nest 1 to 2 : 22.1m

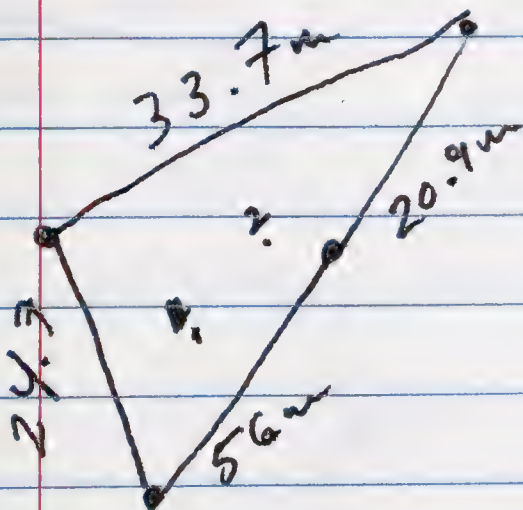
47.2m - nearest neighbor



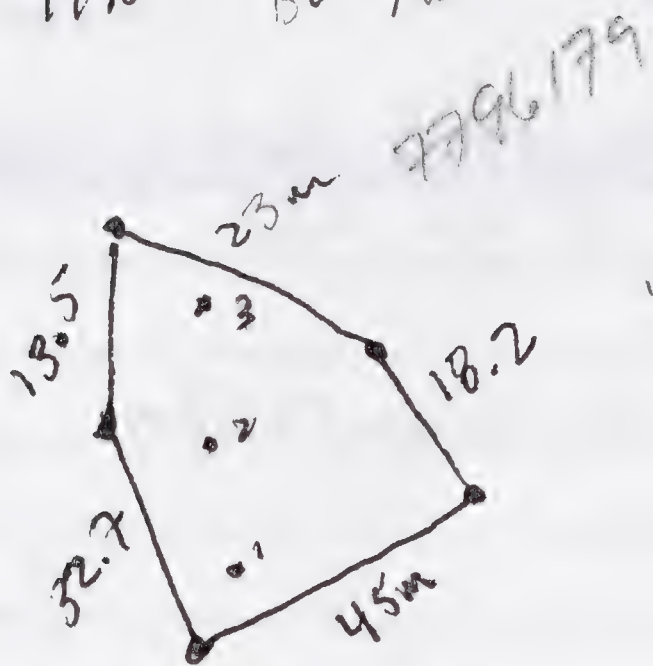
Territory of BK/FW OR/PK 77-96119

nest 1 to 2 : 13.4m

nearest neighbor 21m



1990's BL BL
BL FW



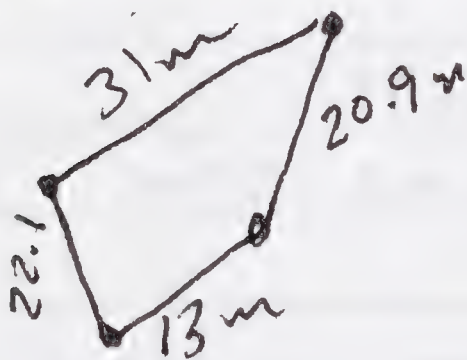
nest 3 to 2 : 27.5m

nest 2 to 1 28.3m

nearest neighbor 21m

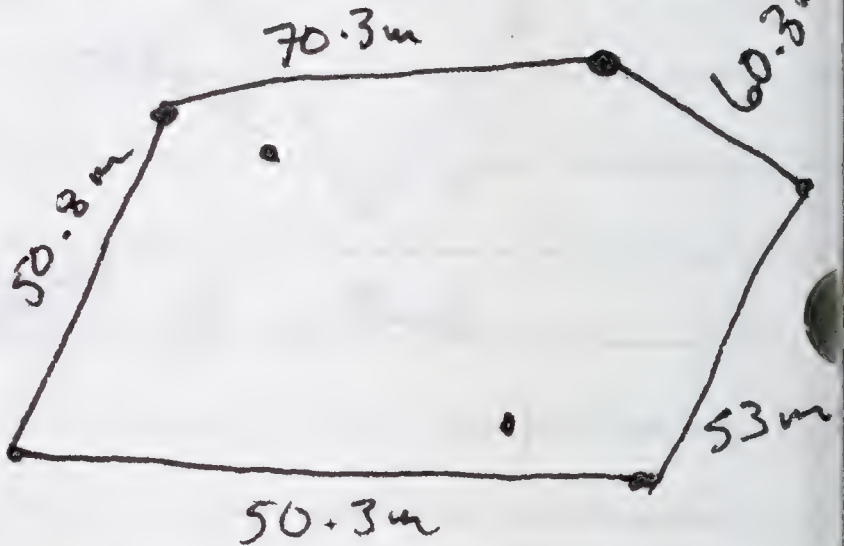
OR OR BL
FW FL 7796178

nearest neighbor 62.3m



wh / FW wh
wh

nest 2:3 - 73.3m
nest 1:03 - 38.6m



nearest neighbor nest 56m

with, g
1991

Journal

277

~~Sagehen Creek Field Sta. 3mi NW Hobart Mills, Nevada Co, Calif 6300 ft.~~

3 August Territory at the corner. 3 babies 0 days old, 1 unhatched egg,
1 cowbird that I discarded.

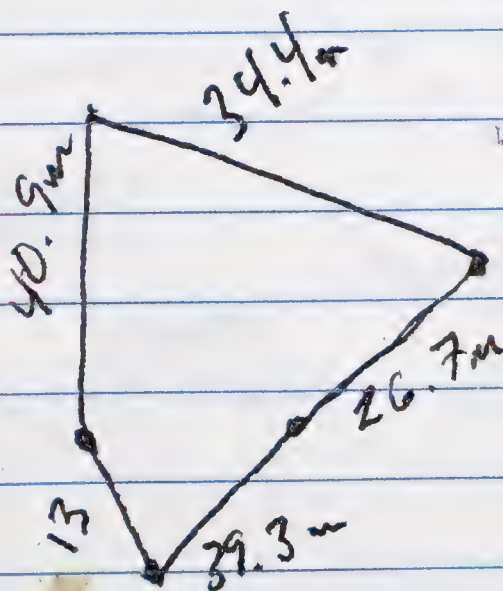
BL	1.92	1.94	2.08
BD	2.25	1.88	1.71
BW	1.99	1.64	1.95
WL	6.09	5.93	5.51
TL	0.00	0.00	0.00
Tar	0.00	0.00	0.00
Midt	11.62	11.43	10.21
hallux	3.94	3.90	3.64
fat	slight	slight	slight
wt	1.5g	1.0g	1.0g
age	0 days	0 days	0 days
molt	none	none	none

round	none	none	none
leg color	red left leg	Green left leg	Black left leg
	77-96180	77-96181	77-96182

measuring Miss war's territory

nest 1 to 2: 23.1m

nearest neighbor 53m



N →

8 ? FW $\frac{RD}{42}$

with, 8
1991

Journal

278

Sagehen Creek Field Sta. 3mi NW Hobart Mills, Nevada Co., Calif 6300 ft

3 Aug

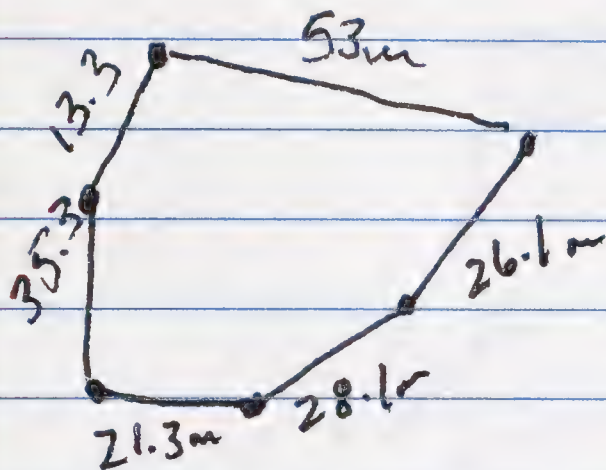
Miss Wiley's

nearest neighbor nest 53m

nest 1 to 2 : 70.6m

? ♂ BK/FW 50% BK

← N

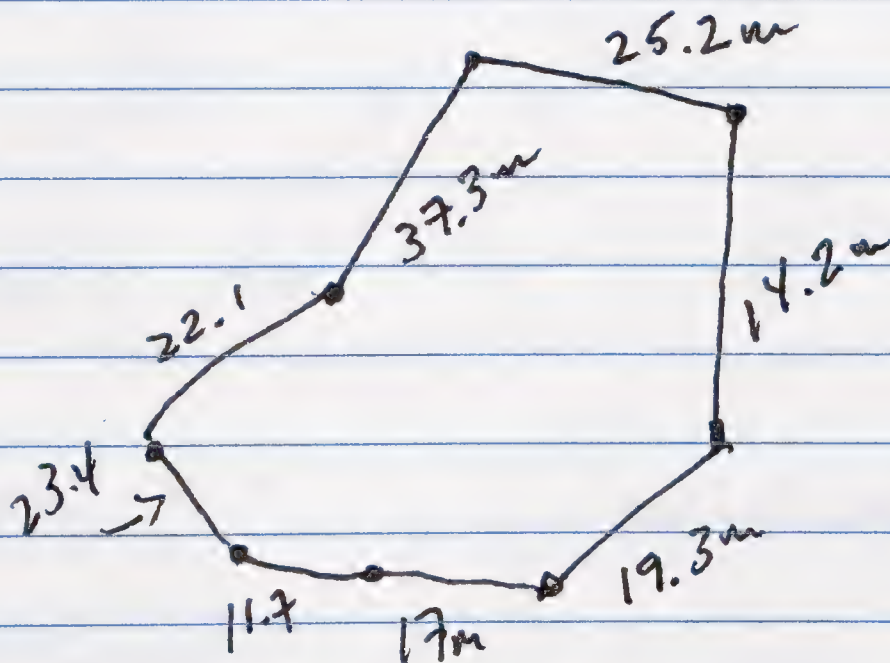


corner territory

nest 1 to 2 : 26.5m

nearest neighbor 30.9m

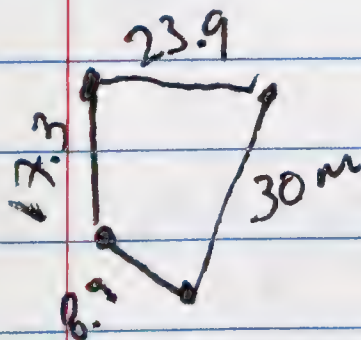
← N



PK/BK 100% FW

nest 1 to 2 : 17.8m

← N



nearest neighbor 30.9m

? ? 60% FW 40% BK

Smith-J

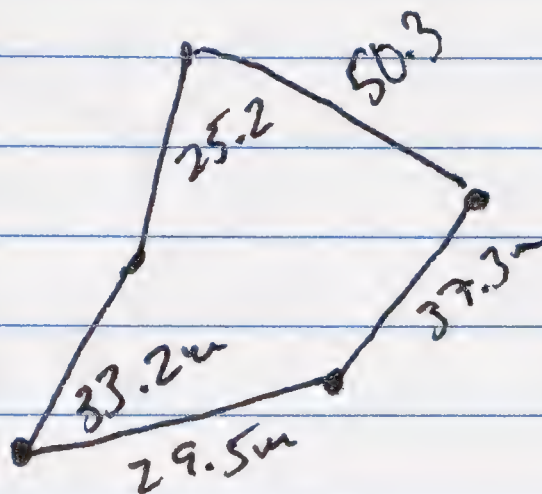
1991

Journal

279

3 Aug Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft
Upstream from ^{PK} BK ^{FW} BR 76.1 m - nearest neighbor

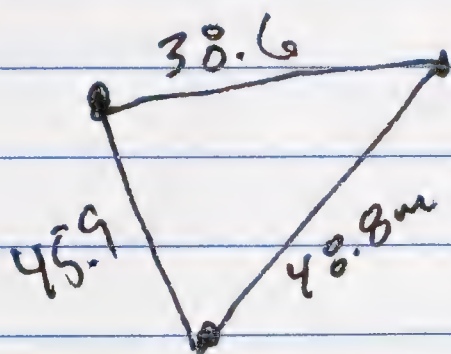
← N



OK/OR FW/BR

next 2 to 3 : 25.1 m
next 1 to 2 : 20.4 m
nearest neighbor 80.6 m

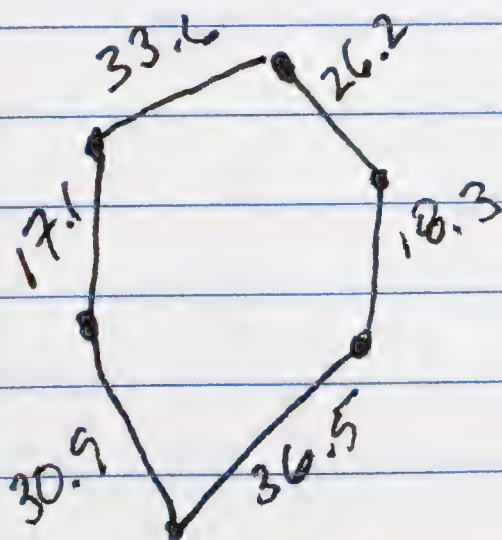
← N



7? GR FW BL

Peanuts

nearest neighbor 80.6 m



34.4 m next 1 to 2

Smith 18
1991

Journal

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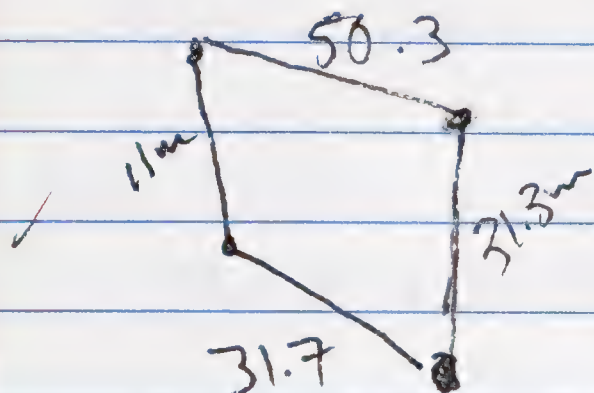
Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., Calif. 6300ft

3 Aug

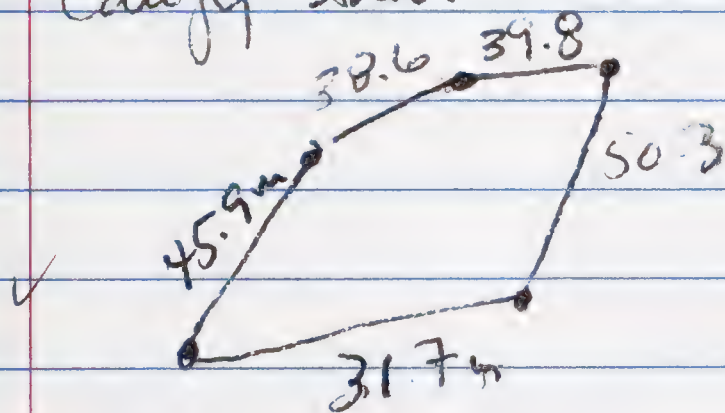
Total water Louca's

next 1 to 2 : 19.5 m

nearest neighbor 5.6 m



Gauging station



with 18
1991

Journal

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Big Creek Reserve, San N Lucia, Monterey Co., Calif 480 ft
7 Aug 1990 Territory at top of white sand

nearest neighbor - 30m

30 x 35 x 30 x 20

nest 1 to 2 - 4m

1990 mellow yellow 's w her bar

30 x 30 x 30 x 30

nearest neighbor 85
10m

1990 favorite Burl

22 x 22 x 22 x 22

nest 1 to 3 - 3m

nest 2 to 4 - 10m

nearest neighbor - 25m

above favorite burl

40 x 30 x 40 x 20

nest 1 to 2 15m

nearest neighbor 23m

Redwood tree pair in favorite burl

30 x 22 x 20 x 20

nest 1 to 2 - 12m

nest 2 to 3 7m

nearest neighbor 25m

1990 Rosewood sds

nearest neighbor 28m

18 x 32 x 7 x 28

Smith J

1991

Journal

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Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co. Calif 96358

8 August Nest at the corner. 3 babies 5 days old, 1 unhatched egg.

Last measured on 3 August 1991. New female.

FWS	77-96180	77-96181	77-96182	77-96183
Band Combo	FW Blue	FW Blue	FW Blue	<u>White</u> <u>Black</u> <u>Black</u> <u>FW</u>
BL	3.81	3.37	3.70	8.94
BD	3.02	2.68	2.88	5.95
BW	3.20	2.87	2.83	4.95
WL	20.62	16.93	15.41	60.89
TL	2.57	0.00	0.00	60.95
Tar	14.59	13.19	14.31	18.88
Mid toe	15.92	14.99	14.12	18.02
hallux	10.27	8.88	8.65	13.92
fat	lots	some	some	some
wt	12.5g.	9.5g.	9.0g.	20.0g.
age	5 days	5 days	5 days	adult
molt	3rd Prim Tail 0.00 0.00	3rd Prim Tail 0.00 No	3rd Prim Tail 0.00 No	No
	9.95 0.91	5.70	5.35	
round	2.22	1.95	2.43	7.80
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.09 ml blood
leg color	Red left leg	Green left leg	Black left leg	
sex				♀, brood patch

Smith J
1991

Journal

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Sagehen Creek Field Sta. 3mi NW Hobart Mills, Nevada Co., Calif 6340 ft.

8 August ♀ ^{White} ^{Orange}
♀ ^{White} FW. 1 baby 8 days old. Last measured on
2 August 1991.

FWS 77-96184

Band Combo FW Orange

BL 4.05

BD 3.15

BW 2.89

WL 27.76

TL 4.34

Tar 18.39

Midtoe 16.66

hallux 11.27

fat lots

wt. 14g.

age 8 days

molt 3rd Prim Tail
0.98 0.00

17.06 2.36

round 3.98

blood 0.4 ml buffer to
0.1 ml blood

Smith, J
1991

Journal

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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co. (adj 6366)

9 Aug measuring transfer w/ pop checks at
w/wh w/wh she is rearing OR/FW on/or's
chicks 2 and one dried up egg in
nest

Red 96189

96190
Green

BL	3.05	2.65
BD	2.51	2.65
BW	2.37	2.23
WL	9.52	8.13
TL	0	0
TAX	0	0
Wt	19.20	18.31
Wt	5.89	5.37
fat	5.4	some
Wt	5.0 g	4.50
Age	2	2
nest	—	—
band	none	—
no blood	—	—

Smith, J
1991

Journal

Sagehen Creek Field Sta. 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

9 Aug

Measuring ^{wh} ^{wh} ^{wh} ^{wh} 's y chicks being reared
by ^{OR} ^{FW} ^{OR} ^{OR}

	⁹⁶¹⁸⁶ Red	⁹⁶¹⁸⁹ Green	⁷⁷⁻⁹⁶¹⁸⁷ ⁹⁶¹⁸⁵ Blk	⁹⁶¹⁸⁷ Green Right
BL	2.86	2.60	3.62	3.07
BD	2.44	2.65	2.80	2.39
BW	2.77	2.44	2.46	2.75
DL	8.12	7.15	10.10	9.95
TL	0	0	0	0
TAR	0	0	0	0
Mid	18.69	14.66	20.78	20.63
Wt	6.42	5.13	6.43	7.0
fat	some	some	much	much
Wt	5.0g	3.0g	6.50	7.0g 5.5g
wilt	—	—	3rd 1 st 0.7g	3rd 0.75
Rows	—	—	—	—
Host	—	—	—	—
Age	2	2 1	2	2

Smith, J
1991

Journal

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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

11 August Nest at the corner. ♀ ^{Wh}~~BK~~ ^{BK}~~FW~~. 3 babies 8 days old.
last measured on 8 August 1991.

FWS 77-96181 77-96180 77-96182

Bird Color FW Blue FW Blue FW Blue

BL 3.94 4.30 4.11

BD 3.24 3.45 2.86

BW 2.91 3.29 3.25

WL 25.36 30.05 22.10

TL 2.72 5.93 2.87

Tar 0.00 0.00 0.00

Midtoe 35.12 33.85 31.64

hallux 10.86 12.04 10.11

fat some some slight

wt 10.5g 13.5g. 7.5g

age 8 days 8 days 8 days

molt 3rd Prim Tail 3rd Prim Tail 3rd Prim Tail
0.90 0.00 4.78 0.00 2.41 0.00

13.41 1.28 20.06 4.01 13.02 1.50

round 2.44 2.68 2.41

Saithig
1991

Journal

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~~Sagehen Creek Field Sta. 3mi NW Hobart Mills, Nevada Co., Calif 300~~

11 August ♀ ^{Or} ^{Gr} ~~FW~~ nest; 3 babies 4 days old, 1 baby 3 days old

Babies are from ♀ ^{White} ^{Wh} ~~FW~~. last measured 9 August 1991.

FWS	77-96185	77-96186	77-96187	77-96188
Bird Color	FW white	FW white	FW white	FW white
BL	3.91	3.65	3.72	3.33
BD	3.11	2.76	2.98	2.64
BW	3.21	2.70	2.48	2.46
WL	17.21	14.23	14.82	10.22
TL	0.00	0.00	0.00	0.00
Tar	0.00	0.00	0.00	0.00
Midt toe	30.16	28.35	30.16	23.10
hallux	9.97	9.35	9.10	7.45
fat	much	much	much	some
wt	11.0g 11.0g	9.5g.	9.5g.	6.0g.
age	4 days	4 days	4 days	3 days
molt	3rd Prim Tail	3rd Prim Tail	3rd Prim Tail	3rd Prim Tail
	0.00 No	0.00 No	0.00 No	0.00 No
	5.29	3.71	5.51	1.34
round	2.80	2.12	2.46	0.98
blood	0.4ml buffer to	0.4ml buffer to	0.4ml buffer to	0.4ml buffer to
	0.08ml blood	0.1ml blood	0.1ml blood	0.06ml blood
leg color	Black	Red left leg	Green Right leg	Green left leg

Smith 18
1991

Journal

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Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif 96004

11 August Nest of ♀ $\frac{wh}{wh}$ $\frac{wh}{FW}$; 2 babies 4 days old from ♀ $\frac{Or}{Or}$ $\frac{Gr}{FW}$

Last measured on 9 August 1991

FWS	77-96189	77-96190
Band/Color	FW Green	FW Green
BL	3.52	3.41
BD	2.99	3.03
BW	2.79	2.68
WL	15.96	13.63
TL	0.00	0.00
Tar	0.00	0.00
Midtars	28.11	27.53
hallux	8.58	8.61
fat	some	some
wt	9.5g.	9.0g.
age	4 days	4 days
molt	3rd Prim Tail 0.00 No	3rd Prim Tail 0.00 No
	5.76	4.21
round	1.73	1.28
blood	0.4 ml buffer to 0.1 ml blood	0.4 ml buffer to 0.095 ml blood
leg color	Red left leg	Green left leg.

